

Davis, M.  
09/748  
743825

09/743825

FILE 'REGISTRY' ENTERED AT 15:58:21 ON 12 AUG 2005  
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STRUCTURE FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1  
DICTIONARY FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

0 GCATGTTACAGGTAGAAAAGCC/SQEP  
123660 SQL=22  
L1 0 GCATGTTACAGGTAGAAAAGCC/SQEP  
(GCATGTTACAGGTAGAAAAGCC/SQEP AND SQL=22)

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(CTGGCGTATCTGAAGAGTCTG/SQEP AND SQL=21)

0 GACCGCATAGACTTCTCAGA/SQEP  
452450 SQL=20  
L3 0 GACCGCATAGACTTCTCAGA/SQEP  
(GACCGCATAGACTTCTCAGA/SQEP AND SQL=20)

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FILE 'HOME' ENTERED AT 15:58:30 ON 12 AUG 2005

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09/743825

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(FILE 'HOME' ENTERED AT 15:22:24 ON 12 AUG 2005)  
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FILE 'REGISTRY' ENTERED AT 15:58:21 ON 12 AUG 2005  
L1 0 SEA ABB=ON PLU=ON GCATGTTACAGGTAGAAAAGCC/SQEP  
L2 0 SEA ABB=ON PLU=ON CTGGCGTATCTGAAGAGTCTG/SQEP  
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FILE 'HOME' ENTERED AT 15:58:30 ON 12 AUG 2005

#### FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1  
DICTIONARY FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMI  
for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

FILE HOME

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Davis, M.  
09/743825  
Seq IDs 7, 8, 110

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 05:00:31 ; Search time 1565 Seconds  
(without alignment)  
681.160 Million cell updates/sec

Title: US-09-743-825-7  
Perfect score: 22  
Sequence: 1 gcatgtacagtagaagaagcc 22

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues  
Total number of hits satisfying chosen parameters: 952800

Minimum DB seq length: 0  
Maximum DB seq length: 22

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database : GenEmbl.\*

- 1: gb\_ba.\*
- 2: gb\_hhg.\*
- 3: gb\_in.\*
- 4: gb\_ov.\*
- 5: gb\_ov.\*
- 6: gb\_pat.\*
- 7: gb\_ph.\*
- 8: gb\_pl.\*
- 9: gb\_pr.\*
- 10: gb\_ro.\*
- 11: gb\_ats.\*
- 12: gb\_sy.\*
- 13: gb\_un.\*
- 14: gb\_vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID       | Description |
|------------|-------|-------------|--------|----------|-------------|
| C 1        | 15.2  | 69.1        | 20     | AR314796 | Sequence    |
| C 2        | 13.2  | 60.0        | 21     | AR374844 | Sequence    |
| C 3        | 13.2  | 60.0        | 21     | AX139516 | Sequence    |
| C 4        | 13.2  | 60.0        | 21     | BD014939 | Lawsonia    |
| C 5        | 12.8  | 58.2        | 19     | BD231604 | Chromosom   |
| C 6        | 12.8  | 58.2        | 20     | AX405008 | Sequence    |
| C 7        | 12.8  | 58.2        | 21     | CQ876341 | Sequence    |
| C 8        | 12.2  | 55.5        | 18     | AR139875 | Sequence    |
| C 9        | 12.2  | 55.5        | 18     | AR167519 | Sequence    |
| C 10       | 12.2  | 55.5        | 18     | AR234243 | Sequence    |
| C 11       | 12.2  | 55.5        | 18     | AR293044 | Sequence    |
| C 12       | 12.2  | 55.5        | 18     | AR476160 | Sequence    |
| C 13       | 12.2  | 55.5        | 18     | AR488045 | Sequence    |
| C 14       | 12.2  | 55.5        | 18     | BD084547 | Recombina   |
| C 15       | 12.2  | 55.5        | 20     | AR207150 | Sequence    |
| C 16       | 12.2  | 55.5        | 20     | AR271107 | Sequence    |
| C 17       | 12.2  | 55.5        | 21     | AX378485 | Sequence    |
| C 18       | 12.2  | 54.5        | 20     | AR118897 | Sequence    |
| C 19       | 12.2  | 54.5        | 20     | CQ763548 | Sequence    |



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Query Match      60.0%; Score 13.2; DB 6; Length 21;
Best Local Similarity 83.3%; Pred. No. 1.3e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAAAGC 21
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Db 2 TGGTACAGCAAGAAAAGC 19

RESULT 5
LOCUS BD231604/c 19 bp DNA linear PAT 17-JUL-2003
DEFINITION Chromosome 17q-linked prostate cancer susceptibility gene.
ACCESSION BD231604
VERSION BD231604.1 GI:33041374
KEYWORDS JP 2002529065-A/156.
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Tavtigian,S.V., Teng,D.H.P., Simard,J. and Rommens,J.M.
TITLE Chromosome 17q-linked prostate cancer susceptibility gene
JOURNAL Patent: JP 2002529065-A 156 10-SEP-2002;
COMMENT MYRIAD GENETICS INC,THE HOSPITAL FOR SICK CHILDREN
OS Homo sapiens (human)
PN JP 2002529065-A/156
PD 10-SEP-2002
PF 05-NOV-1999 JP 2000581041
PR 06-NOV-1998 US 60/107468
PI SEAN V TAVTIGIAN, DAVID H F TENG, JACQUES SIMARD, JOHANNA M PI
ROMMENS
PC C12N15/09,A61K31/713,A61K38/00,A61K39/395,A61K45/00,A61K48/00,
PC A61P35/00,
PC C07K14/47,C07K16/18,C07K16/44,C12N1/15,C12N1/19,C12N1/21,C12N5/ PC
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PC G01N33/577,
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Qy 3 ATGTTACAGGTAGAAA 18
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Db 19 ATGTCACAGGCAGAAA 4

RESULT 6
LOCUS AX405008/c 20 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 25 from Patent WO222634.
ACCESSION AX405008
VERSION AX405008.1 GI:21438223
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Choo,Y. and Isalan,M.

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TITLE Method for the preparation of selectively randomised nucleic acid
molecules
JOURNAL Patent: WO 022634-A 25 21-MAR-2002;
Sangamo Biosciences Inc. (US)
FEATURES
source
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Oligonucleotide"

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Best Local Similarity 61.1%; Pred. No. 2.1e+05;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAAAGC 21
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Db 19 TSYKCGAGKYAGAAAAGC 2

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LOCUS CQ876341/c 21 bp DNA linear PAT 04-OCT-2004
DEFINITION Sequence 191 from Patent WO2004065583.
ACCESSION CQ876341
VERSION CQ876341.1 GI:53789945
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Cobleigh,M.A., Shak,S., Baker,J.B. and Cronin,M.T.
TITLE Gene expression markers for breast cancer prognosis
JOURNAL Patent: WO 2004065583-A 191 05-AUG-2004;
Genomic Health, Inc. (US); Rush University Medical Center (US)
FEATURES
source
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/db_xref="taxon:32630"
/note="reverse primer"

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Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22
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Db 21 TTCTGGTAGAAAAGCC 6

RESULT 8
LOCUS AR139875 18 bp DNA linear PAT 16-JUN-2001
DEFINITION Sequence 53 from patent US 6207416.
ACCESSION AR139875
VERSION AR139875.1 GI:14482371
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 18)
AUTHORS Tsarev,S.A., Emerson,S.U. and Purcell,R.H.
TITLE Recombinant proteins of a Pakistani strain of hepatitis E and their
JOURNAL use in diagnostic methods and vaccines
FEATURES Patent: US 6207416-A 53 27-MAR-2001;
source Location/Qualifiers
1..18
/organism="unknown"
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ORIGIN

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Best Local Similarity 82.4%; Pred. No. 4.2e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
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Db 2 GTTACAGCCAGAAAACC 18

RESULT 9  
AR167519  
LOCUS AR167519 18 bp DNA linear PAT 17-DEC-2001  
DEFINITION Sequence 53 from patent US 6287759.  
ACCESSION AR167519  
VERSION AR167519.1 GI:17903303  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Tsarev,S.A., Emerson,S.U. and Purcell,R.H.  
TITLE Recombinant proteins of a Pakistani strain of hepatitis E and their use in diagnostic methods and vaccines  
JOURNAL Patent: US 6287759-A 53 11-SEP-2001;  
FEATURES Location/Qualifiers  
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Qy 5 GTTACAGGTAGAAAAGC 21  
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Db 2 GTTACAGCCAGAAAACC 18

RESULT 10  
AR234243  
LOCUS AR234243 18 bp DNA linear PAT 20-DEC-2002  
DEFINITION Sequence 53 from patent US 6458562.  
ACCESSION AR234243  
VERSION AR234243.1 GI:27276915  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Emerson,S.U., Purcell,R.H., Tsarev,S.A. and Robinson,R.A.  
TITLE Recombinant proteins of a Pakistani strain of hepatitis E and their use in diagnostic methods and vaccines  
JOURNAL Patent: US 6458562-A 53 01-OCT-2002;  
FEATURES Location/Qualifiers  
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Qy 5 GTTACAGGTAGAAAAGC 21  
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Db 2 GTTACAGCCAGAAAACC 18

RESULT 11  
AR293044  
LOCUS AR293044 18 bp DNA linear PAT 12-JUN-2003

DEFINITION Sequence 4779 from patent US 6537751.  
ACCESSION AR293044  
VERSION AR293044.1 GI:31690328  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Cohen,D., Chumakov,I. and Blumenfeld,M.  
TITLE Biallelic markers for use in constructing a high density disequilibrium map of the human genome  
JOURNAL Patent: US 6537751-A 4779 25-MAR-2003;  
FEATURES Location/Qualifiers  
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Query Match 55.5%; Score 12.2; DB 6; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.2e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTACAGGTAGAAAAG 20  
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Db 1 TGTGAGAGGTAGAGAAG 17

RESULT 12  
AR476160  
LOCUS AR476160 18 bp DNA linear PAT 14-MAY-2004  
DEFINITION Sequence 53 from patent US 6696242.  
ACCESSION AR476160  
VERSION AR476160.1 GI:47233050  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Tsarev,S.A., Emerson,S.U. and Purcell,R.H.  
TITLE Recombinant proteins of a Pakistani strain of hepatitis E and their use in diagnostic methods and vaccines  
JOURNAL Patent: US 6696242-A 53 24-FEB-2004;  
FEATURES Location/Qualifiers  
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/mol\_type="genomic DNA"

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Best Local Similarity 82.4%; Pred. No. 4.2e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
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Db 2 GTTACAGCCAGAAAACC 18

RESULT 13  
AR488045  
LOCUS AR488045 18 bp DNA linear PAT 15-MAY-2004  
DEFINITION Sequence 53 from patent US 6706873.  
ACCESSION AR488045  
VERSION AR488045.1 GI:47253790  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Tsarev,S.A., Emerson,S.U. and Purcell,R.H.  
TITLE Recombinant proteins of a Pakistani strain of hepatitis E and their use in diagnostic methods and vaccines  
JOURNAL Patent: US 6706873-A 53 16-MAR-2004;  
FEATURES Location/Qualifiers

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source 1..18
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Db 2 GTTACAGCCAGAAAACC 18

RESULT 14
LOCUS BD084547 18 bp DNA linear PAT 27-AUG-2002
DEFINITION Recombinant proteins of a pakistani strain of hepatitis E and their
use in diagnostic methods and vaccines.
ACCESSION BD084547
VERSION BD084547.1 GI:22630157
KEYWORDS JP 2001524821-A/50.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 18)
AUTHORS Emerson,S.U., Purcell,R.H., Tsarev,S.A. and Robinson,R.A.
TITLE Recombinant proteins of a pakistani strain of hepatitis E and their
use in diagnostic methods and vaccines
JOURNAL THE BIO ORIENTED TECHNOLOGY RESEARCH ADVANCEMENT INSTITUTION
COMMENT THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY
SECRETARY DEPARTMENT OF HEALTH AND HUMAN SERVICES
OS Unidentified
PN JP 2001524821-A/50
PD 04-DEC-2001
PF 09-APR-1998 JP 1998544174
PI 11-APR-1997 US 08/840316
PI SUZANNE U EMERSON,ROBERT H PURCELL,SERGEI A TSAREV,ROBIN A PI
ROBINSON
PC C12N15/51,C07K14/08,C07K16/10,A61K39/29,G01N33/576 CC
Strandedness: Single;
CC Topology: Linear;
CC Recombinant proteins of a pakistani strain of hepatitis E and
their use in
CC diagnostic methods and vaccines
FH Key Location/Qualifiers
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Db 2 GTTACAGCCAGAAAACC 18

RESULT 15
LOCUS AR207150/c 20 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 44 from patent US 6372492.
ACCESSION AR207150
VERSION AR207150.1 GI:21505970
KEYWORDS
SOURCE Unknown.

ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Bennett,C.Frank. and Cowsert,L.M.
TITLE Antisense modulation of talin expression
JOURNAL Patent: US 6372492-A 44 16-APR-2002;
FEATURES Location/Qualifiers
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Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTACAGGTAGAAAAG 20
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Db 19 TGTGACGGCAGCAAG 3

RESULT 16
LOCUS AR271107 20 bp DNA linear PAT 10-APR-2003
DEFINITION Sequence 50 from patent US 6503152.
ACCESSION AR271107
VERSION AR271107.1 GI:29702410
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Pelz,D.T.
TITLE -Putting trainer
JOURNAL Patent: US 6503152-A 50 07-JAN-2003;
FEATURES Location/Qualifiers
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/mol_type="genomic DNA"

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Best Local Similarity 82.4%; Pred. No. 4.2e+05;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
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Db 1 GTCACAGGTGGAAAATC 17

RESULT 17
LOCUS AX378485/c 21 bp DNA linear PAT 18-MAR-2002
DEFINITION Sequence 274 from Patent WO0206525.
ACCESSION AX378485
VERSION AX378485.1 GI:19574338
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Cohen,D., Blumenfeld,M., Chumakov,I., Abderrahim,H. and Bihain,B.
TITLE Obesity associated biallelic marker maps
JOURNAL Patent: WO 0206525-A 274 24-JAN-2002;
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/mol_type="Homo sapiens"
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Best Local Similarity 82.4%; Pred. No. 4.2e+05;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAGC 21
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Db 19 GTTTCAGATAAAAGC 3

RESULT 18
LOCUS AR118897 20 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 23 from patent US 6150092.
ACCESSION AR118897
VERSION AR118897.1 GI:14100807
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Uchida,K., Uchida,T., Tanaka,Y., Matsuda,Y. and Kondo,S.
TITLE Antisense nucleic acid compound targeted to VRGF
JOURNAL Patent: US 6150092-A 23 21-NOV-2000;
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Qy 1 GCATGTTACAGGTAGAAAAG 20
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Db 1 GCATGGTGGAGGTAGAGCAG 20

RESULT 19
LOCUS CO763548 20 bp DNA linear PAT 03-MAR-2004
DEFINITION Sequence 2166 from Patent WO2004003201.
ACCESSION CO763548
VERSION CO763548.1 GI:44906784
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Kane,C.D.
TITLE Antisense modulation of lhr1 expression
JOURNAL Patent: WO 2004003201-A 2166 08-JAN-2004;
Pharmacia Corporation (US)
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Qy 3 ATGTTACAGGTAGAAAAGCC 22
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Db 20 ATGCCACAGGTATGAAGTC 1

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Query Match      54.5%; Score 12; DB 6; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.3e+05;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAAGC 21
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Db 19 TGKCCGAGKYAGAAAAGC 2

RESULT 21
LOCUS AX405002 20 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 19 from Patent WO0222634.
ACCESSION AX405002
VERSION AX405002.1 GI:21438217
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Choo,Y. and Isalan,M.
TITLE Method for the preparation of selectively randomised nucleic acid molecules
JOURNAL Patent: WO 0222634-A 19 21-MAR-2002;
Sangamo Biosciences Inc. (US)
FEATURES Location/Qualifiers
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Qy 4 TGTTACAGGTAGAAAAGC 21
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Db 19 TGKCCGAGKYAGAAAAGC 2

RESULT 22
LOCUS AX133296 21 bp DNA linear PAT 15-MAY-2001
DEFINITION Sequence 4514 from Patent WO0130362.
ACCESSION AX133296
VERSION AX133296.1 GI:14139606
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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AR297958/c
LOCUS AR297958 20 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 9693 from patent US 6537751.
ACCESSION AR297958
VERSION AR297958.1 GI:31685242
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Cohen,D., Chumakov,I. and Blumenfeld,M.
TITLE Biallelic markers for use in constructing a high density disequilibrium map of the human genome
JOURNAL Patent: US 6537751-A 9693 25-MAR-2003;
FEATURES Location/Qualifiers
         source
           1..20
             /organism="unknown"
             /mol_type="genomic DNA"

ORIGIN
Query Match      54.5%; Score 12; DB 6; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.3e+05;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAAAAG 20
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Db 20 GTATGTCGTAGGTATATAAG 1

RESULT 21
LOCUS AX405002 20 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 19 from Patent WO0222634.
ACCESSION AX405002
VERSION AX405002.1 GI:21438217
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Choo,Y. and Isalan,M.
TITLE Method for the preparation of selectively randomised nucleic acid molecules
JOURNAL Patent: WO 0222634-A 19 21-MAR-2002;
Sangamo Biosciences Inc. (US)
FEATURES Location/Qualifiers
         source
           1..20
             /organism="synthetic construct"
             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"
             /note="Oligonucleotide"

ORIGIN
Query Match      54.5%; Score 12; DB 6; Length 20;
Best Local Similarity 66.7%; Pred. No. 5.3e+05;
Matches 12; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAAAAGC 21
   |||||
Db 19 TGKCCGAGKYAGAAAAGC 2

RESULT 22
LOCUS AX133296/c
DEFINITION Sequence 4514 from Patent WO0130362.
ACCESSION AX133296
VERSION AX133296.1 GI:14139606
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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REFERENCE 1
AUTHORS Robbins,J.M. and Tritz,R.
TITLE Ribozyme therapy for the treatment of proliferative skin and eye
JOURNAL Patent: WO 0130362-A 4514 03-MAY-2001;
IMMUSOL, INC. (US)
FEATURES
source 1. 21
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
/note="VEGF hammerhead ribozyme recognition site"

ORIGIN
Query Match 54.5%; Score 12; DB 6; Length 21;
Best Local Similarity 75.0%; Pred. No. 5.3e+05; Length 21;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CATGTTACAGGTAGAAAGC 21
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Db 21 CATGGTCGAGGTAGAGCAGC 2

RESULT 23
CQ848304 22 bp DNA linear PAT 19-AUG-2004
LOCUS Sequence 9 from Patent WO2004063366.
DEFINITION CQ848304
ACCESSION CQ848304.1 GI:51469805
VERSION CQ848304.1
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS Steiger,S. and Sandmann,G.
TITLE Method for producing ketocarotenoids by cultivating genetically
JOURNAL Patent: WO 2004063366-A 9 29-JUL-2004;
BASF AKTIENGESSELLSCHAFT (DE)
FEATURES
source 1. 22
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

ORIGIN
Query Match 54.5%; Score 12; DB 6; Length 22;
Best Local Similarity 75.0%; Pred. No. 5.3e+05; Length 22;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAGCC 22
||||| ||||| |||||
Db 1 ATGATCCAGTTAGACACACC 20

RESULT 24
BD063649 17 bp DNA linear PAT 27-AUG-2002
LOCUS Nucleotide and protein sequences of liver activin/inhibin and
DEFINITION methods based thereon.
ACCESSION BD063649
VERSION BD063649.1 GI:22609252
KEYWORDS JP 2001503420-A/14.
SOURCE synthetic construct
ORGANISM synthetic construct; artificial sequences.

REFERENCE 1
AUTHORS Bonadio,J. and Fang,J.
TITLE Nucleotide and protein sequences of liver activin/inhibin and
JOURNAL Patent: JP 2001503420-A 14 24-APR-2001;
THE REGENTS OF THE UNIVERSITY OF MICHIGAN
COMMENT OS Artificial Sequence

PN JP 2001505420-A/14
PD 24-APR-2001
PF 20-NOV-1997 JP 1998523766
PR 20-NOV-1996 US 08/752919.
PI JEFFREY BONADIO,JIANNING FANG
PC C07H21/04,C12N15/00,C12NS/10,C12NS/16
CC Synthetic oligonucleotide
FH Key Location/Qualifiers.
FEATURES
source 1. 17
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

ORIGIN
Query Match 53.6%; Score 11.8; DB 6; Length 17;
Best Local Similarity 86.7%; Pred. No. 6.8e+05; Length 17;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CATGTTACAGGTAGA 16
||||| ||||| |||||
Db 1 CATGCTCCAGGTAGA 15

RESULT 25
AR294337 19 bp DNA linear PAT 12-JUN-2003
LOCUS Sequence 6072 from patent US 6537751.
DEFINITION AR294337
ACCESSION AR294337
VERSION AR294337.1 GI:31681621
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 19)
AUTHORS Cohen,D., Chumakov,I. and Blumenfeld,M.
TITLE Biallelic markers for use in constructing a high density
JOURNAL disequilibrium map of the human genome
FEATURES Patent: US 6537751-A 6072 25-MAR-2003;
source Location/Qualifiers
1. 19
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN
Query Match 53.6%; Score 11.8; DB 6; Length 19;
Best Local Similarity 86.7%; Pred. No. 6.8e+05; Length 19;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAA 19
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Db 1 GTTAGAGTTGAAAA 15

RESULT 26
A33496/c 20 bp DNA linear PAT 30-NOV-2001
LOCUS Synthetic P.falciiparum 155 gene PCR primer RIT34.
DEFINITION A33496
ACCESSION A33496
VERSION A33496.1 GI:1567941
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1 (bases 1 to 20)
AUTHORS Holmes,M.J. and Uhlen,M.
TITLE SOLID PHASE DIAGNOSIS OF MEDICAL CONDITIONS
JOURNAL Patent: WO 9011369-A 21 04-OCT-1990;
CEMU BIOTEKNIK (SE)
FEATURES Location/Qualifiers
source 1. 20
/organism="synthetic construct"
/mol_type="unassigned DNA"

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REFERENCE 1
AUTHORS Law,D., Gish,K.C., Murray,R. and Culp,P.
TITLE Compositions against cancer antigen liv-1 and uses thereof
JOURNAL Patent: WO 2004067564-A 11 12-AUG-2004;
PROTEIN DESIGN LABS, INC. (US)
FEATURES
source
Location/Qualifiers
1..21
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="BCR4-53 sense siRNA"
ORIGIN
Query Match 53.6%; Score 11.8; DB 6; Length 21;
Best Local Similarity 86.7%; Pred. No. 6.7e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 7 TACAGGTAGAAAAGC 21
||| ||||| |||||
Db 17 TAGCGGTAGAAAAGC 3

RESULT 32
CQ854110 21 bp DNA linear PAT 23-AUG-2004
LOCUS Sequence 12 from Patent WO2004067564.
DEFINITION CQ854110
ACCESSION CQ854110
VERSION CQ854110.1 GI:51510137
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Law,D., Gish,K.C., Murray,R. and Culp,P.
TITLE Compositions against cancer antigen liv-1 and uses thereof
JOURNAL Patent: WO 2004067564-A 12 12-AUG-2004;
PROTEIN DESIGN LABS, INC. (US)
FEATURES
source
Location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="BCR4-53 antisense siRNA"
ORIGIN
Query Match 53.6%; Score 11.8; DB 6; Length 21;
Best Local Similarity 86.7%; Pred. No. 6.7e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 7 TACAGGTAGAAAAGC 21
||| ||||| |||||
Db 3 TAGCGGTAGAAAAGC 17

RESULT 33
BD089416 22 bp DNA linear PAT 27-AUG-2002
LOCUS A method of arraying genome clone.
DEFINITION BD089416
ACCESSION BD089416
VERSION BD089416.1 GI:22635026
KEYWORDS JP 2001321190-A/1660.
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 22)
AUTHORS Soeda,E.
TITLE A method of arraying genome clone
JOURNAL Patent: JP 2001321190-A 1660 20-NOV-2001;
THE INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, YUGENKAISHA
GENOTCHS
OS Artificial Sequence
PN JP 2001321190-A/1660
PD 20-NOV-2001

REFERENCE 35
AUTHORS AB068139
TITLE Synthetic construct DNA, reverse primer for human STS
JOURNAL DEFINITION
AB068139 22 bp DNA linear SYN 21-MAY-2003
LOCUS Synthetic construct DNA, reverse primer for human STS
DEFINITION
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PF 12-MAR-2001 JP 2001068285
PI EIICHI SOEDA
PC C12N15/09,C12N15/09,C12M1/00,C12Q1/68,G01N33/53,G01N33/566, PC
C12N15/00,
PC C12N15/00
CC Description of Artificial Sequence:Synthetic DNA FH Key
FT source
FT 1..22
Location/Qualifiers
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Location/Qualifiers
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ORIGIN
Query Match 53.6%; Score 11.8; DB 6; Length 22;
Best Local Similarity 86.7%; Pred. No. 6.7e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 2 CATGTTACAGGTACA 16
||||| ||||| |||
Db 8 CATGTTACATGTACA 22

RESULT 34
BD089578 22 bp DNA linear PAT 27-AUG-2002
LOCUS A method of arraying genome clone.
DEFINITION BD089578
ACCESSION BD089578
VERSION BD089578.1 GI:22635188
KEYWORDS JP 2001321190-A/1822.
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 22)
AUTHORS Soeda,E.
TITLE A method of arraying genome clone
JOURNAL Patent: JP 2001321190-A 1822 20-NOV-2001;
THE INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, YUGENKAISHA
GENOTCHS
OS Artificial Sequence
PN JP 2001321190-A/1822
PD 20-NOV-2001
PF 12-MAR-2001 JP 2001068285
PI EIICHI SOEDA
PC C12N15/09,C12N15/09,C12M1/00,C12Q1/68,G01N33/53,G01N33/566, PC
C12N15/00,
PC C12N15/00
CC Description of Artificial Sequence:Synthetic DNA FH Key
FT source
FT 1..22
Location/Qualifiers
/organism='Artificial Sequence'.
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source
Location/Qualifiers
1..22
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
ORIGIN
Query Match 53.6%; Score 11.8; DB 6; Length 22;
Best Local Similarity 86.7%; Pred. No. 6.7e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 2 CATGTTACAGGTACA 16
||||| ||||| |||
Db 8 CATGTTACATGTACA 22

RESULT 35
AB068139 22 bp DNA linear SYN 21-MAY-2003
LOCUS Synthetic construct DNA, reverse primer for human STS
DEFINITION
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```

sts-stGDB443043 at lp36.
AB068139          1  GI:15128943
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* SOURCE          synthetic construct
ORGANISM          other sequences; artificial sequences.
REFERENCE 1
AUTHORS          Chen, Y.Z., Hayashi, Y., Wu, J.G., Takaoka, E., Maekawa, K.,
Watanabe, N., Inazawa, J., Hosoda, F., Arai, Y., Mizushima, H.,
Morohashi, A., Ohira, M., Nakagawara, A., Liu, S., Hoshi, M., Horii, A.
and Soeda, E.
TITLE            A BAC-based STS-content map spanning a 35-Mb region of human
JOURNAL          chromosome 1p35-p36
MEDLINE          Genomics 74 (1), 55-70 (2001)
PUBMED          21269192
REFERENCE 2 (bases 1 to 22)
AUTHORS          Horii, A.
TITLE            Direct Submission
JOURNAL          Submitted (04-AUG-2001) Akira Horii, Tohoku University School of
Medicine, Molecular Pathology; 2-1 Seiryomachi, Aoba-ku, Sendai,
Miyagi 980-8575, Japan (E-mail: horii@mail.cc.tohoku.ac.jp,
Tel: 81-22-717-8042, Fax: 81-22-717-8047)
FEATURES
source          Location/Qualifiers
1..22           /organism="synthetic construct"
/mol_type="genomic DNA"
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sts-A002035 obtained from clones B262K21, B239M20, B215H8,
B239P22, B239P22, B301O16, B262K21, Human BAC library
RPCI-11"
ORIGIN
Query Match    53.6%; Score 11.8; DB 12; Length 22;
Best Local Similarity 86.7%; Pred. No. 6.7e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy            2 CATGTTACAGGTAGA 16
Db            8 CATGTTACATGTACA 22

RESULT 37
AR292809       19 bp DNA linear PAT 12-JUN-2003
LOCUS          AR292809
DEFINITION    Sequence 4544 from patent US 6537751.
ACCESSION     AR292809
VERSION       AR292809.1 GI:31680093
KEYWORDS      .
SOURCE        Unknown.
ORGANISM      Unclassified.
REFERENCE 1 (bases 1 to 19)
AUTHORS       Cohen, D., Chumakov, I. and Blumenfeld, M.
TITLE         Ballelic markers for use in constructing a high density
disequilibrium map of the human genome
Patent: US 6537751-A 4544 25-MAR-2003;
JOURNAL
FEATURES
source          Location/Qualifiers
1..19           /organism="unknown"
/mol_type="genomic DNA"
ORIGIN
Query Match    52.7%; Score 11.6; DB 6; Length 19;
Best Local Similarity 77.8%; Pred. No. 8.6e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy            4 TGTTCACAGGTAGAAAGC 21
Db            2 TGTTCATAGTTAGAAAGC 19

RESULT 38
CQ762779/c     20 bp DNA linear PAT 03-MAR-2004
LOCUS          CQ762779
DEFINITION    Sequence 1397 from Patent WO2004003201.
ACCESSION     CQ762779
VERSION       CQ762779.1 GI:44906015
KEYWORDS      .
SOURCE        synthetic construct
ORGANISM      other sequences; artificial sequences.
REFERENCE 1
AUTHORS       Kane, C.D.
TITLE         Antisense modulation of lhr1 expression
JOURNAL       Patent: WO 2004003201-A 1397 08-JAN-2004;
Pharmacia Corporation (US)
FEATURES
source          Location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Human LRH1 antisense"

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sts-stGDB443043 at lp36.
AB068139          1  GI:15128943
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* SOURCE          synthetic construct
ORGANISM          other sequences; artificial sequences.
REFERENCE 1
AUTHORS          Chen, Y.Z., Hayashi, Y., Wu, J.G., Takaoka, E., Maekawa, K.,
Watanabe, N., Inazawa, J., Hosoda, F., Arai, Y., Mizushima, H.,
Morohashi, A., Ohira, M., Nakagawara, A., Liu, S., Hoshi, M., Horii, A.
and Soeda, E.
TITLE            A BAC-based STS-content map spanning a 35-Mb region of human
JOURNAL          chromosome 1p35-p36
MEDLINE          Genomics 74 (1), 55-70 (2001)
PUBMED          21269192
REFERENCE 2 (bases 1 to 22)
AUTHORS          Horii, A.
TITLE            Direct Submission
JOURNAL          Submitted (04-AUG-2001) Akira Horii, Tohoku University School of
Medicine, Molecular Pathology; 2-1 Seiryomachi, Aoba-ku, Sendai,
Miyagi 980-8575, Japan (E-mail: horii@mail.cc.tohoku.ac.jp,
Tel: 81-22-717-8042, Fax: 81-22-717-8047)
FEATURES
source          Location/Qualifiers
1..22           /organism="synthetic construct"
/mol_type="genomic DNA"
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notes="reverse primer for human STS sts-stGDB443043 at
lp36
sts-stGDB443043 obtained from clones B58A11, B239M20,
B215H8, B239P22, B239P22, B88A11, Human BAC library
RPCI-11"
ORIGIN
Query Match    53.6%; Score 11.8; DB 12; Length 22;
Best Local Similarity 86.7%; Pred. No. 6.7e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy            2 CATGTTACAGGTAGA 16
Db            8 CATGTTACATGTACA 22

RESULT 36
AB068145        22 bp DNA linear SYN 21-MAY-2003
LOCUS          AB068145
DEFINITION    Synthetic construct DNA, reverse primer for human STS sts-A002035
at lp36.
ACCESSION     AB068145
VERSION       AB068145.1 GI:15128949
KEYWORDS      .
SOURCE        synthetic construct
ORGANISM      other sequences; artificial sequences.
REFERENCE 1
AUTHORS       Chen, Y.Z., Hayashi, Y., Wu, J.G., Takaoka, E., Maekawa, K.,
Watanabe, N., Inazawa, J., Hosoda, F., Arai, Y., Mizushima, H.,
Morohashi, A., Ohira, M., Nakagawara, A., Liu, S., Hoshi, M., Horii, A.
and Soeda, E.
TITLE            A BAC-based STS-content map spanning a 35-Mb region of human
JOURNAL          chromosome 1p35-p36
MEDLINE          Genomics 74 (1), 55-70 (2001)
PUBMED          21269192
REFERENCE 2 (bases 1 to 22)
AUTHORS          Horii, A.
TITLE            Direct Submission
JOURNAL          Submitted (04-AUG-2001) Akira Horii, Tohoku University School of
Medicine, Molecular Pathology; 2-1 Seiryomachi, Aoba-ku, Sendai,
Miyagi 980-8575, Japan (E-mail: horii@mail.cc.tohoku.ac.jp,

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## ORIGIN

Query Match 52.7%; Score 11.6; DB 6; Length 20;  
Best Local Similarity 77.8%; Pred. No. 8.6e+05;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAAG 20  
Db 19 ATGCCACAGGTATGAAAG 2

RESULT 39  
CQ763112/c

LOCUS CQ763112 20 bp DNA linear PAT 03-MAR-2004  
DEFINITION Sequence 1730 from Patent WO2004003201.

ACCESSION CQ763112

VERSION CQ763112.1 GI:44906348

KEYWORDS

SOURCE synthetic construct

ORGANISM other sequences; artificial sequences.

## REFERENCE 1

AUTHORS Kane, C.D.  
TITLE Antisense modulation of ltrhl expression  
JOURNAL Pharmacia Corporation (US)

## FEATURES

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Location/Qualifiers  
/organism="synthetic construct"  
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/note="Human LRH1 antisense"

## \* ORIGIN

Query Match 52.7%; Score 11.6; DB 6; Length 20;  
Best Local Similarity 77.8%; Pred. No. 8.6e+05;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAAG 20  
Db 18 ATGCCACAGGTATGAAAG 1

RESULT 40  
BD012454

LOCUS BD012454 20 bp DNA linear PAT 02-AUG-2002  
DEFINITION A novel gene encoding TSPI-like protein.

ACCESSION BD012454

VERSION BD012454.1 GI:22092643

KEYWORDS WO 0109321-A/38.

SOURCE synthetic construct

ORGANISM other sequences; artificial sequences.

## REFERENCE 1

AUTHORS Ota, T., Isogai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J., Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K., Otsuki, T., Murakami, K., Yano, K., Kanakaki, K. and Inoue, Y.

## TITLE

JOURNAL A novel gene encoding TSPI-like protein  
Patent: WO 0109321-A 38 08-FEB-2001;  
HELIX RESEARCH INSTITUTE, TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, KAORU SAITO, JUNICHI YAMAMOTO, SHIZUKO ISHII, OMOYASU SUGIYAMA, AI WAKAMATSU, KEIICHI NAGAI, TETSUJI OTSUKI, KOJI MURAKAMI, AZUHIRO YANO, KOJI KANZAKI, YOSHIHISA INOUE

## \* COMMENT

OS Artificial Sequence  
PN WO 0109321-A/38  
PD 08-FEB-2001

PF 28-JUL-2000 WO 2000JP005068

PR 29-JUL-1999 JP 99P 248036 27-AUG-1999 JP 99P 300253 PR

11-JAN-2000 JP 00P 118776, 02-MAY-2000 JP 00P 183767 PR  
18-OCT-1999 US 60/159590, 17-FEB-2000 US 60/183322 PI TOSHIO

OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, PI KAORU SAITO, PI JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAMATSU, PI KEIICHI NAGAI, TETSUJI OTSUKI, KOJI MURAKAMI, KAZUHIRO YANO, PI

KOJI KANZAKI,  
PI YOSHIHISA INOUE  
PC C12N15/12.C07K14/47.C07K16/18.C12P21/08  
CC Description of Artificial Sequence: an artificially synthesized  
Primer KOJI KANZAKI,  
CC  
sequence  
FH Key Location/Qualifiers.  
1..20  
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FEATURES  
source  
Location/Qualifiers

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Query Match 52.7%; Score 11.6; DB 6; Length 20;  
Best Local Similarity 77.8%; Pred. No. 8.6e+05;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAAA 18  
Db 1 GCATGTTACATCTGGACA 18

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Job time : 1571 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 04:53:41 ; Search time 239 Seconds  
(without alignments)  
544.913 Million cell updates/sec

Title: US-09-743-825-7

Perfect score: 22

Sequence: 1 gcattgtacaggtagaagacc 22

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 2486036

Minimum DB seq length: 0

Maximum DB seq length: 22

Post-processing: Minimum Match 0%

Listing first 100 summaries

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1: geneseq1980s.\*

2: geneseq1990s.\*

3: geneseq2000s.\*

4: geneseq2001as.\*

5: geneseq2001bs.\*

6: geneseq2002as.\*

7: geneseq2002bs.\*

8: geneseq2003as.\*

9: geneseq2003bs.\*

10: geneseq2003cs.\*

11: geneseq2003ds.\*

12: geneseq2004as.\*

13: geneseq2004bs.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 2          | 15.2  | 69.1        | 20     | AAX96007 | Aax96007 PCR prime |
| 3          | 13.2  | 60.0        | 21     | Aa198006 | Aa198006 Lawsonia  |
| 4          | 13.2  | 60.0        | 21     | ACA92364 | Ac92364 Lawsonia   |
| 5          | 13.2  | 60.0        | 21     | ADG33930 | Adg33930 L. intrac |
| 6          | 13.2  | 60.0        | 21     | ADJ66835 | Adj66835 Lawsonia  |
| 7          | 13.2  | 60.0        | 21     | ADR72987 | Adr72987 Lawsonia  |
| 8          | 13    | 59.1        | 22     | AAP85459 | Aaf85459 Polynucle |
| 9          | 12.8  | 58.2        | 19     | AA60336  | Aa60336 Human HPC  |
| 10         | 12.8  | 58.2        | 19     | AA599071 | Aa599071 Human DPO |
| 11         | 12.8  | 58.2        | 20     | AA33010  | Aa33010 Mouse SRY  |
| 12         | 12.8  | 58.2        | 20     | ABK87666 | Abk87666 Synthetic |
| 13         | 12.8  | 58.2        | 20     | ADA66516 | Ada66516 Transform |
| 14         | 12.8  | 58.2        | 21     | ADG89282 | Adg89282 Cancer de |
| 15         | 12.8  | 58.2        | 21     | ADP27751 | Adp27751 PCR prime |
| 16         | 12.8  | 58.2        | 21     | ADR00153 | Adr00153 COX2 prob |
| 17         | 12.6  | 57.3        | 20     | ADQ13916 | Adq13916 DMD regio |
| 18         | 12.4  | 56.4        | 20     | ADD18145 | Add18145 Human G-p |
| 19         | 12.4  | 56.4        | 20     | ADI41032 | Adi41032 Human HGP |
| 20         | 12.4  | 56.4        | 21     | ABT16558 | Abt16558 Ethylene  |

|    |      |      |    |    |          |                    |
|----|------|------|----|----|----------|--------------------|
| 21 | 12.2 | 55.5 | 18 | 2  | AAQ61732 | Aaq61732 HEV strai |
| 22 | 12.2 | 55.5 | 18 | 2  | AAV27443 | Aav27443 HEV strai |
| 23 | 12.2 | 55.5 | 18 | 2  | AAV71653 | Aav71653 HEV ORF p |
| 24 | 12.2 | 55.5 | 18 | 3  | AAZ70423 | Aaz70423 Human bia |
| 25 | 12.2 | 55.5 | 20 | 6  | ABN89231 | Abn89231 Human Tal |
| 26 | 12.2 | 55.5 | 20 | 6  | ADG90494 | Adg90494 Human tal |
| 27 | 12.2 | 55.5 | 20 | 10 | ADG65754 | Adg65754 Human TGF |
| 28 | 12.2 | 55.5 | 20 | 10 | ADF90932 | Adf90932 Microorga |
| 29 | 12.2 | 55.5 | 20 | 10 | ABZ86479 | Abz86479 Human oli |
| 30 | 12.2 | 55.5 | 20 | 11 | ABD22709 | Abd22709 Human myo |
| 31 | 12.2 | 55.5 | 20 | 12 | ADP85699 | Adp85699 Human Tal |
| 32 | 12.2 | 55.5 | 21 | 3  | AAC73052 | Aac73052 Single nu |
| 33 | 12.2 | 55.5 | 21 | 6  | ABK41026 | Abk41026 Human obe |
| 34 | 12.2 | 55.5 | 22 | 12 | ADH56236 | Adh56236 Yeast YFL |
| 35 | 12.2 | 55.5 | 20 | 3  | AAZ75337 | Aaz75337 Human bia |
| 36 | 12   | 54.5 | 20 | 6  | ABK87660 | Abk87660 Synthetic |
| 37 | 12   | 54.5 | 20 | 12 | ADJ17616 | Adj17616 Antisense |
| 38 | 12   | 54.5 | 20 | 12 | ADL01087 | Adl01087 Human VEG |
| 39 | 12   | 54.5 | 21 | 5  | AAH62090 | Aah62090 VEGF ham  |
| 40 | 12   | 54.5 | 22 | 12 | ADO16516 | Ado16516 4 synthe  |
| 41 | 12   | 54.5 | 22 | 13 | ADQ94527 | Adq94527 Nostoc sp |
| 42 | 11.8 | 53.6 | 17 | 2  | AAV38248 | Aav38248 Murine li |
| 43 | 11.8 | 53.6 | 19 | 3  | AAZ71716 | Aaz71716 Human bia |
| 44 | 11.8 | 53.6 | 20 | 2  | AAZ04704 | Aaz04704 PCR prime |
| 45 | 11.8 | 53.6 | 20 | 5  | AAD12412 | Aad12412 Mouse cas |
| 46 | 11.8 | 53.6 | 20 | 6  | ABK87668 | Abk87668 Synthetic |
| 47 | 11.8 | 53.6 | 20 | 6  | ABK87664 | Abk87664 Synthetic |
| 48 | 11.8 | 53.6 | 20 | 10 | ADD25041 | Add25041 Mouse cas |
| 49 | 11.8 | 53.6 | 20 | 12 | ADJ46478 | Adj46478 Human ppp |
| 50 | 11.8 | 53.6 | 20 | 12 | ADQ15482 | Adq15482 Human thy |
| 51 | 11.8 | 53.6 | 20 | 12 | ADQ15323 | Adq15323 Human thy |
| 52 | 11.8 | 53.6 | 20 | 12 | ADQ15336 | Adq15336 Human thy |
| 53 | 11.8 | 53.6 | 20 | 12 | ADQ15472 | Adq15472 Human thy |
| 54 | 11.8 | 53.6 | 21 | 9  | ADA89324 | Ada89324 Human IBD |
| 55 | 11.8 | 53.6 | 21 | 13 | ADR87279 | Adr87279 BCR4-53 s |
| 56 | 11.8 | 53.6 | 21 | 13 | ADR87280 | Adr87280 BCR4-53 a |
| 57 | 11.8 | 53.6 | 22 | 6  | ABL44778 | Ab144778 Human chr |
| 58 | 11.8 | 53.6 | 22 | 6  | ABL44616 | Ab144616 Human chr |
| 59 | 11.8 | 53.6 | 22 | 10 | ADC39407 | Adc39407 Novel hum |
| 60 | 11.6 | 52.7 | 18 | 6  | ABT05087 | Abt05087 TNFR1 exp |
| 61 | 11.6 | 52.7 | 18 | 13 | ADR06117 | Adr06117 Human TNF |
| 62 | 11.6 | 52.7 | 19 | 3  | AAZ70188 | Aaz70188 Human bia |
| 63 | 11.6 | 52.7 | 19 | 6  | AAH77788 | Aah77788 PCR prime |
| 64 | 11.6 | 52.7 | 20 | 4  | ACC59349 | Acc59349 Murine MI |
| 65 | 11.6 | 52.7 | 20 | 9  | ABZ91134 | Abz91134 Human oli |
| 66 | 11.6 | 52.7 | 20 | 10 | ABZ93362 | Abz93362 Human oli |
| 67 | 11.6 | 52.7 | 20 | 11 | ABD27364 | Abd27364 H05893-de |
| 68 | 11.6 | 52.7 | 20 | 11 | ABD29592 | Abd29592 H86812-de |
| 69 | 11.6 | 52.7 | 20 | 12 | ADI57114 | Adi57114 Oryza min |
| 70 | 11.6 | 52.7 | 20 | 12 | ADJ17180 | Adj17180 Antisense |
| 71 | 11.6 | 52.7 | 20 | 12 | ADJ16847 | Adj16847 Antisense |
| 72 | 11.6 | 52.7 | 21 | 2  | ADG77351 | Adg77351 Canine di |
| 73 | 11.6 | 52.7 | 21 | 6  | ABX09387 | Abx09387 Arteriosc |
| 74 | 11.6 | 52.7 | 22 | 2  | AAQ86462 | Aaq86462 IFN-omega |
| 75 | 11.6 | 52.7 | 23 | 5  | ABC71407 | Abc71407 Oligonuc1 |
| 76 | 11.4 | 51.8 | 13 | 5  | ABC71406 | Abc71406 Oligonuc1 |
| 77 | 11.4 | 51.8 | 14 | 5  | AAA19216 | Aaa19216 Human TIE |
| 78 | 11.4 | 51.8 | 14 | 6  | ABT13115 | Abt13115 Panconi a |
| 79 | 11.4 | 51.8 | 14 | 6  | ADC42352 | Adc42352 Human PAN |
| 80 | 11.4 | 51.8 | 14 | 10 | AAK68784 | Aak68784 Human fic |
| 81 | 11.4 | 51.8 | 17 | 2  | AAV97923 | Aav97923 Human EGF |
| 82 | 11.4 | 51.8 | 17 | 2  | AAV97925 | Aav97925 Human EGF |
| 83 | 11.4 | 51.8 | 17 | 2  | AAV97922 | Aav97922 Human EGF |
| 84 | 11.4 | 51.8 | 17 | 2  | AAV97924 | Aav97924 Human EGF |
| 85 | 11.4 | 51.8 | 18 | 2  | AAQ57499 | Aaq57499 Rat GAP-4 |
| 86 | 11.4 | 51.8 | 18 | 2  | AAQ57508 | Aaq57508 Rat GAP-4 |
| 87 | 11.4 | 51.8 | 19 | 2  | AAQ61172 | Aaq61172 Human chr |
| 88 | 11.4 | 51.8 | 19 | 2  | AAQ61168 | Aaq61168 Human chr |
| 89 | 11.4 | 51.8 | 19 | 2  | AAQ61141 | Aaq61141 Human chr |
| 90 | 11.4 | 51.8 | 19 | 2  | AAQ61141 | Aaq61141 Human chr |
| 91 | 11.4 | 51.8 | 19 | 3  | AAZ72328 | Aaz72328 Human bia |
| 92 | 11.4 | 51.8 | 19 | 10 | ADF36174 | Adf36174 Human VEG |
| 93 | 11.4 | 51.8 | 19 | 10 | ADF35747 | Adf35747 Human VEG |

c 94 11.4 51.8 19 12 ADQ62530 Adq62530 Anti-inte  
 Aax58979 PCR prime  
 Aav84314 Human JAG  
 Aax38517 E. coli S  
 Aax94099 PCR prime  
 Aah37845 SNP speci  
 Aad35778 Human hib  
 100 11.4 51.8 20 6 AAD35778

## ALIGNMENTS

RESULT 1  
 AAZ50444  
 ID AAZ50444 standard; DNA; 22 BP.  
 XX  
 AC AAZ50444;  
 XX  
 DT 18-MAY-2000 (first entry)  
 XX  
 DE EST R00504-specific primer 1.  
 XX  
 KW PB39; human; prostate cancer; PC; chromosome 11p11.1-11.2; cancer;  
 KW prostate epithelium; splicing mechanism; early diagnosis; progression;  
 KW precancerous cell; metastatic potential; non-neoplastic prostate disease;  
 KW expressed sequence tag; EST; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200005376-A1.  
 XX  
 PD 03-FEB-2000.  
 XX  
 PF 23-JUL-1999; 99WO-US016831.  
 XX  
 PR 24-JUL-1998; 98US-0094137P.  
 XX  
 PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 XX  
 PI Chuahui RF, Cole KA, Liotta LA;  
 XX  
 XX WPI; 2000-182700/16.  
 XX  
 DR Novel gene which is dysregulated in prostate cancer useful for diagnosing  
 PT cancer.  
 PT  
 PS Claim 5; Page 16; 51pp; English.

XX The present sequence is the EST AAR00504-specific PCR primer, used for  
 CC amplification of sequences contained within the EST AAR00504. It is  
 CC useful to probe the gene overexpressed in prostate cancer epithelium and  
 CC to analyse the differential expression of the EST. The PB39 gene that is  
 CC dysregulated in prostate cancer is isolated from human pancreas cDNA  
 CC library and has homology to the EST AAR00504. PB39 gene is located on  
 CC chromosome 11p11.1-11.2. Abnormally high concentrations of PB39 are found  
 CC in prostate tissue derived from prostate cancer (PC) epithelium. PB39  
 CC sequence is useful for detection of precancerous or cancer cells in the  
 CC prostate. PB39 is useful for early diagnosis of the progression of  
 CC prostate cancer, especially in aggressive prostate carcinoma. It can also  
 CC distinguish PC from other non-neoplastic prostate disease. The diagnostic  
 CC method is selective and specific for various types of PC and also  
 CC facilitates identifying prostate cancer of differing aggressiveness and  
 CC metastatic potential  
 XX  
 SQ Sequence 22 BP; 8 A; 4 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 100.0%; Score 22; DB 3; Length 22;  
 Best Local Similarity 100.0%; Pred. No. 0.51; Mismatches 0; Indels 0; Gaps 0;  
 Matches 22; Conservative 0;

Oy 1 GCATGTTACAGGTAGAAAAGCC 22  
 ||||||||||||||||||||  
 Db 1 GCATGTTACAGGTAGAAAAGCC 22

RESULT 2  
 AAX96007/c  
 ID AAX96007 standard; DNA; 20 BP.  
 XX  
 AC AAX96007;  
 XX

DT 13-SEP-1999 (first entry)  
 XX

XX PCR primer used to amplify an ORF of Chlamydia pneumoniae.

XX Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis;  
 KW sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine;  
 KW neutralising epitope; PCR primer; ss.  
 XX

OS Synthetic.  
 OS Chlamydoiphila pneumoniae.

PN WO9927105-A2.  
 XX

XX 03-JUN-1999.  
 PD

XX 20-NOV-1998; 98WO-IB001890.  
 XX

XX 21-NOV-1997; 97ER-00014673.  
 PR

PR 04-NOV-1998; 98US-0107078P.  
 XX

XX (GEST ) GENSET.  
 PA

XX Griffais R;  
 PI

XX WPI; 1999-357842/30.  
 DR

XX Genome sequence of Chlamydia pneumoniae.  
 XX

XX Page 1792; Disclosure; 1912pp; English.  
 PS

XX AAX91991-X97517 represent PCR primers used to amplify open reading frames  
 CC and other nucleic acid sequences from the genome of Chlamydia pneumoniae  
 CC (see AAX91990). C. pneumoniae causes respiratory disease such as  
 CC pneumonia and bronchitis and is thought to be a contributing factor in  
 CC heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema  
 CC nodosum or pharyngitis. The polypeptides encoded by the open reading  
 CC frames of the C. pneumoniae genome (see AAX34584- AAX35879) can be used  
 CC in immunogenic compositions as vaccines. Vectors containing C. pneumoniae  
 CC nucleotide sequences can also be used as immunogenic compositions,  
 CC especially where the vector directs the expression of a neutralising  
 CC epitope of C. pneumoniae  
 XX

SQ Sequence 20 BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 69.1%; Score 15.2; DB 2; Length 20;

Best Local Similarity 85.0%; Pred. No. 1.2e+03;

Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 1 GCATGTTACAGGTAGAAAAG 20  
 ||||||||||||||||||||

Db 20 GCCTGTTCCAGATAGAAAAG 1

## RESULT 3

AAI98006  
 ID AAI98006 standard; DNA; 21 BP.  
 XX  
 AC AAI98006;  
 XX

DT 20-NOV-2001 (first entry)  
 XX

XX Lawsonia intracellularis protein related oligonucleotide SEQ ID NO: 50.  
 DE HtrA; PonA; HypC; Yefw; ABC1; Omp100; Lawsonia intracellularis infection;  
 KW vaccine; PCR primer; probe; ss.  
 KW

XX Lawsonia intracellularis.  
 OS JP2001169787-A.  
 PN 26-JUN-2001.  
 PD 20-OCT-2000; 2000JP-00320736.  
 PF 22-OCT-1999; 99US-0160922P.  
 PR (PF12) PFIZER PROD INC.  
 PA WPI; 2001-592540/67.  
 DR Lawsonia intracellularis polynucleotide and encoded protein, used to  
 XX prevent Lawsonia intracellularis infection.  
 PT Example 2; Page 55; 67pp; Japanese.  
 PS The present invention provides isolated polynucleotides encoding HtrA,  
 CC PonA, HypC, Lyss, Ycfw, ABC1 or Omp100 protein of Lawsonia  
 CC intracellularis. The sequences can be used in vaccines for the prevention  
 CC of Lawsonia intracellularis infection. The present sequence is an  
 CC oligonucleotide described in the exemplification of the invention  
 XX SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;  
 Query Match 60.0%; Score 13.2; DB 4; Length 21;  
 Best Local Similarity 83.3%; Pred. No. 1.2e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 4 TGGTACAGGTAGAAAGC 21  
 DB 2 TGGTACAGCAAGAAAGC 19  
 RESULT 4  
 ID ACA92364 standard; DNA; 21 BP.  
 AC ACA92364;  
 DT 16-JUL-2003 (first entry)  
 DE Lawsonia intracellularis DNA PCR primer #41.  
 XX Primer; ss; antibacterial; HtrA; PonA; HypC; Lyss; Ycfw; ABC1; Omp100;  
 KW Lawsonia intracellularis infection; Orf1; pig; PCR.  
 XX Lawsonia intracellularis.  
 OS US2003021802-A1.  
 PN 30-JAN-2003.  
 PD 01-AUG-2002; 2002US-00210296.  
 PF 22-OCT-1999; 99US-0160922P.  
 PR 05-NOV-1999; 99US-0163858P.  
 PR 12-OCT-2000; 2000US-00689065.  
 XX (ROSE/) ROSEY E L.  
 PA Rosey EL;  
 PI WPI; 2003-416977/39.  
 DR New isolated Lawsonia intracellularis polynucleotide and polypeptide,  
 XX useful for the prevention and diagnosis of Lawsonia infections in  
 PT susceptible animals, such as pigs.  
 PS Example 2; Page 46; 64pp; English.

XX The invention relates to an isolated polynucleotide molecule comprising a  
 CC sequence encoding Lawsonia intracellularis HtrA, PonA, HypC, Lyss, Ycfw,  
 CC ABC1 or Omp100 protein. The invention also relates to a genetic construct  
 CC comprising a polynucleotide molecule that can be used to alter a Lawsonia  
 CC gene, comprising a polynucleotide molecule comprising a sequence that is  
 CC otherwise the same as a nucleotide sequence of a htrA, ponA, hypC, lyss,  
 CC ycfw, abc1 or omp100 gene, or its homologue, a substantial portion, or  
 CC mutations capable of altering the above mentioned genes or a  
 CC polynucleotide molecule comprising a sequence that naturally flanks in  
 CC situ the ORF of the htrA, ponA, hypC, lyss, ycfw, abc1 or omp100 gene or  
 CC its homologue. The invention also relates to a fusion protein of a  
 CC polypeptide of the invention fused to another polypeptide or an analogue  
 CC or derivative. The invention further relates to a substantially pure  
 CC polypeptide comprising an epitope of HtrA, PonA, HypC, Lyss, Ycfw, ABC1  
 CC or Omp100 protein that is specifically reactive with anti-Lawsonia  
 CC antibodies. The methods and compositions of the present invention are  
 CC useful for the prevention and diagnosis of L. intracellularis infections  
 CC in susceptible animals, such as pigs. Sequences ACA92324-ACA92415  
 CC represent PCR primers used to amplify DNA encoding L. intracellularis  
 CC proteins of the invention.  
 XX SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;  
 Query Match 60.0%; Score 13.2; DB 9; Length 21;  
 Best Local Similarity 83.3%; Pred. No. 1.2e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 4 TGGTACAGGTAGAAAGC 21  
 DB 2 TGGTACAGCAAGAAAGC 19  
 RESULT 5  
 ADG33930  
 ID ADG33930 standard; DNA; 21 BP.  
 XX AC ADG33930;  
 XX DT 26-FEB-2004 (first entry)  
 XX DE L. intracellularis sequencing primer #26.  
 XX KW Lawsonia intracellularis; HtrA; PonA; HypC; Lyss; Ycfw; ABC1; Omp100;  
 KW pig; ss; sequencing; primer.  
 XX OS Lawsonia intracellularis.  
 XX PN US2003202983-A1.  
 XX PD 30-OCT-2003.  
 XX PF 29-MAY-2003; 2003US-00449462.  
 XX PR 22-OCT-1999; 99US-0160922P.  
 PR 05-NOV-1999; 99US-0163858P.  
 PR 12-OCT-2000; 2000US-00689065.  
 XX (ROSE/) ROSEY E L.  
 PA Rosey EL;  
 PI WPI; 2003-900619/82.  
 DR New isolated Lawsonia intracellularis polynucleotide and polypeptide,  
 XX useful for the prevention and diagnosis of Lawsonia infections in  
 PT susceptible animals, such as pigs.  
 PS Example 2; SEQ ID NO 50; 66pp; English.  
 XX The invention relates to a new isolated polynucleotide molecule which  
 CC encodes Lawsonia intracellularis HtrA, PonA, HypC, Lyss, Ycfw, ABC1 or  
 CC Omp100 protein. The methods and compositions of the present invention are

CC useful for the prevention and diagnosis of L. intracellularis infections  
 CC in susceptible animals, such as pigs. The present sequence is used in the  
 CC exemplification of the present invention.

XX  
 SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;  
 Query Match 60.0%; Score 13.2; DB 10; Length 21;  
 Best Local Similarity 83.3%; Pred. No. 1.2e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGGTACAGGTAGAAAAGC 21  
 ||||| |||||  
 Db 2 TGGTACAGCAAGAAAAGC 19

## RESULT 6

ADJ66835  
 ID ADJ66835 standard; DNA; 21 BP.

XX  
 AC ADJ66835;

XX  
 DT 06-MAY-2004 (first entry)

XX  
 DE Lawsonia intracellularis PCR primer SeqID50.

XX  
 KW antibacterial; vaccine; HtrA; PonA; HypC; Lyss; YcfW; ABC1; Omp100;  
 KW diagnostic agent; infection; pig; porcine proliferative enteropathy; PCR;  
 KW primer; ss.

XX  
 OS Lawsonia intracellularis.

XX  
 PN US6605696-B1.

XX  
 PD 12-AUG-2003.

XX  
 PF 12-OCT-2000; 2000US-00689065.

XX  
 PR 22-OCT-1999; 99US-0160922P.

XX  
 PR 05-NOV-1999; 99US-0163868P.

XX  
 PA (PFIZ ) PFIZER INC.

XX  
 PA (PFIZ ) PFIZER PROD INC.

XX  
 PI Rosey EL;

XX  
 DR WPI; 2003-895290/82.

XX  
 PT New Lawsonia intracellularis polypeptides, useful as vaccines, as  
 PT diagnostic agents, or in preventing infections in susceptible animals  
 PT such as pigs, e.g. porcine proliferative enteropathy.

XX  
 PS Example 2; SEQ ID NO 50; 62pp; English.

XX  
 CC This invention relates to a novel isolated polypeptide derived from  
 CC Lawsonia intracellularis. The invention may be useful for the development  
 CC of compounds with an antibacterial activity or a vaccine. Specifically  
 CC claimed are L intracellularis proteins, such as HtrA, PonA, HypC, Lyss,  
 CC YcfW, ABC1 and Omp100 proteins. The invention may be useful for the  
 CC development of vaccines, diagnostic agents, or in preventing L  
 CC intracellularis infections in susceptible animals such as pigs, for  
 CC example porcine proliferative enteropathy. The present sequence is that  
 CC of a PCR primer which was used for amplification and/or sequencing of a  
 CC region of L intracellularis DNA during the exemplification of the  
 CC invention.

XX  
 SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 60.0%; Score 13.2; DB 10; Length 21;  
 Best Local Similarity 83.3%; Pred. No. 1.2e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGGTACAGGTAGAAAAGC 21  
 ||||| |||||

Db 2 TGGTACAGCAAGAAAAGC 19

## RESULT 7

ADR72987  
 ID ADR72987 standard; DNA; 21 BP.

XX  
 AC ADR72987;

XX  
 DT 04-NOV-2004 (first entry)

XX  
 DE Lawsonia intracellularis DNA sequence #41.

XX  
 KW HtrA; PonA; HypC; Lyss; YcfW; ABC1; Omp100; infection; primer; probe; ss.

XX  
 OS Lawsonia intracellularis.

XX  
 PN JP2004229667-A.

XX  
 PD 19-AUG-2004.

XX  
 PF 26-MAR-2004; 2004JP-00092095.

XX  
 PR 22-OCT-1999; 99US-0160922P.

XX  
 PR 20-OCT-2000; 2000JP-00320736.

XX  
 PA (PFIZ ) PFIZER PROD INC.

XX  
 DR WPI; 2004-597336/58.

XX  
 PT Novel isolated polynucleotide comprising Lawsonia intracellularis  
 PT nucleotide sequence that encodes HtrA, PonA, HypC, Lyss, YcfW, ABC1 or  
 PT Omp100 protein or its essential portion, useful as diagnostic agent.

XX  
 PS Example 2; SEQ ID NO 50; 55pp; Japanese.

XX  
 CC The invention comprises the amino acid and coding sequences of the  
 CC Lawsonia intracellularis proteins: HtrA, PonA, HypC, Lyss, YcfW, ABC1,  
 CC and Omp100. The DNA and protein sequences of the invention are useful for  
 CC preventing Lawsonia intracellularis infection of animals (e.g. pig). The  
 CC present DNA sequence was used in the exemplification of the invention.  
 CC NOTE: The present sequence is not shown in the specification but was  
 CC obtained from the Japanese Patent Office.

XX  
 SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 60.0%; Score 13.2; DB 13; Length 21;

Best Local Similarity 83.3%; Pred. No. 1.2e+04;

Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGGTACAGGTAGAAAAGC 21

||||| |||||

Db 2 TGGTACAGCAAGAAAAGC 19

## RESULT 8

AAF85459/c

ID AAF85459 standard; DNA; 22 BP.

XX  
 AC AAF85459;

XX  
 DT 23-JUL-2001 (first entry)

XX  
 DE Polynucleotide in unique region in exon 1 of rabbit motilin receptor.

XX  
 KW Motilin receptor; gastrointestinal disease; gastric motility disorder;  
 KW gastroparesis; irritable bowel syndrome; diarrhoea; ss.

XX  
 OS Oryctolagus cuniculus.

XX  
 PN WO200132710-A1.

XX  
 PD 10-MAY-2001.



XX 25-OCT-2000; 2000WO-US029426.  
 XX PF  
 XX 29-OCT-1999; 99US-0162264P.  
 XX PR  
 XX (MERI ) MERCK & CO INC.  
 XX PA  
 XX Tan C, McKee K;  
 XX PI  
 XX WPI; 2001-343479/36.  
 XX DR  
 XX Novel polypeptides related to dog and rabbit motilin receptor  
 XX PT polypeptide, comprising unique regions from dog and motilin receptor  
 XX PT amino acid sequence, useful for identifying compounds for treating  
 XX PT diarrhea in humans.  
 XX PT  
 XX Claim 17; Page 22; 42pp; English.  
 XX FS  
 XX AAF85456-60 represent polynucleotide sequences from the unique region of  
 XX CC exon 1 of a rabbit motilin receptor gene. The specification describes an  
 XX CC unique sequence present in exon 1 of the motilin receptor, which is not  
 XX CC present in human or Sphaeroides nophilus 7587 motilin receptor sequences.  
 XX CC The unique nucleic acid sequence is useful for measuring the ability of a  
 XX CC compound to affect motilin receptor activity. Motilin receptor  
 XX CC polynucleotides and polypeptides are used to identify therapeutic  
 XX CC compounds which are useful for treating gastrointestinal diseases and  
 XX CC disorders such as gastric motility disorders, gastroparesis, irritable  
 XX CC bowel syndrome, and diarrhea  
 XX CC  
 XX SQ Sequence 22 BP; 2 A; 7 C; 5 G; 8 T; 0 U; 0 Other;  
 XX  
 XX Query Match 59.1%; Score 13; DB 4; Length 22;  
 XX Best Local Similarity 100.0%; Pred. No. 1.5e+04;  
 XX Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX  
 XX Qy 9 CAGGTAGAAAAGC 21  
 XX | | | | | | | | | |  
 XX Db 13 CAGGTAGAAAAGC 1  
 XX  
 XX RESULT 9  
 XX AAA60336/c  
 XX ID AAA60336 standard; DNA; 19 BP.  
 XX XX  
 XX AC AAA60336;  
 XX XX  
 XX DT 07-DEC-2000 (first entry)  
 XX XX  
 XX DE Human HPC2 cDNA exon 18 mutation screening primer SEQ ID NO: 157.  
 XX XX  
 XX KW Human; mouse; prostate cancer predisposing gene; HPC2;  
 XX KW human chromosome 17p; gene therapy; peptide therapy; drug design;  
 XX KW PCR primer; sequencing primer; ss.  
 XX XX  
 XX OS Homo sapiens.  
 XX OS  
 XX PN WO200027864-A1.  
 XX PD 18-MAY-2000.  
 XX XX  
 XX PF 05-NOV-1999; 99WO-US026055.  
 XX PF  
 XX PR 06-NOV-1998; 98US-0107468P.  
 XX PR  
 XX PA (MYRI-) MYRIAD GENETICS INC.  
 XX XX  
 XX PI Tavtigian SV, Teng DHF, Simard J, Rommens JM;  
 XX WPI; 2000-376481/32.  
 XX DR  
 XX Human prostate cancer (HPC)2 nucleic acids, polypeptides, and antibodies,  
 XX PT useful for treatment and diagnosis of prostate cancer.  
 XX PT

PS Example 5; Page 61; 157pp; English.  
 XX The present sequence is a primer used in the isolation of the human and  
 CC murine prostate cancer predisposing genes HPC2 and Mm.HPC2. The human  
 CC version of the gene is found on chromosome 17p. Some alleles cause a  
 CC predisposition to cancer, particularly prostate cancer. This gene and its  
 CC protein can be used in peptide and gene therapy for cancer patients, as  
 CC well as being useful as diagnostic tools (both for cancer sufferers and  
 CC those with a predisposition to the disease) and in the production of  
 CC cancer drugs  
 XX SQ Sequence 19 BP; 2 A; 6 C; 4 G; 7 T; 0 U; 0 Other;  
 XX  
 XX Query Match 58.2%; Score 12.8; DB 3; Length 19;  
 XX Best Local Similarity 87.5%; Pred. No. 1.9e+04;  
 XX Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 XX  
 XX Qy 3 ATGTTACAGGTAGAAA 18  
 XX | | | | | | | | | |  
 XX Db 19 ATGTCACAGGCAGAAA 4  
 XX  
 XX RESULT 10  
 XX AAS99071/c  
 XX ID AAS99071 standard; DNA; 19 BP.  
 XX XX  
 XX AC AAS99071;  
 XX XX  
 XX DT 12-MAR-2002 (first entry)  
 XX XX  
 XX DE Human prostate cancer predisposing gene (HPC2) PCR primer #67.  
 XX XX  
 XX KW Human; mouse; prostate cancer; neoplastic growth; cytostatic; ss;  
 XX KW gene therapy; prostate cancer predisposing gene; chimpanzee; gorilla;  
 XX KW sequencing primer; PCR primer.  
 XX XX  
 XX OS Homo sapiens.  
 XX OS  
 XX PN WO200185911-A2.  
 XX PD 15-NOV-2001.  
 XX XX  
 XX PF 07-MAY-2001; 2001WO-US014602.  
 XX PF  
 XX PR 05-MAY-2000; 2000US-00564805.  
 XX PR  
 XX PA (MYRI-) MYRIAD GENETICS INC.  
 XX PA (HOSP-) HOSPITAL FOR SICK CHILDREN.  
 XX XX  
 XX PI Tavtigian SV, Teng DHF, Simard J, Rommens JM;  
 XX WPI; 2002-066599/09.  
 XX DR  
 XX Novel nucleic acid sequence encoding HPC2 polypeptide, which is marker  
 XX PT for prostate cancer, is useful in gene therapy techniques to restore HPC2  
 XX PT normal levels by which neoplastic growth is suppressed in recipient cell.  
 XX XX  
 XX PS Example 8; Page 74; 239pp; English.  
 XX The invention relates to a human prostate cancer predisposing gene coding  
 CC for an HPC2 polypeptide. The DNA and protein sequences are useful as  
 CC diagnostic reagents for identifying a mutant HPC2 nucleotide sequence in  
 CC a suspected mutant HPC2 allele by comparing the sequence of the suspected  
 CC mutant HPC2 allele with a wild-type HPC2 sequence. The sequences are also  
 CC useful for detecting an alteration in HPC2, where the alteration is  
 CC associated with cancer in a human. The method involves analysing an HPC2  
 CC gene or an HPC2 gene expression product from a tissue of the human. The  
 CC HPC2 gene is useful as a marker for prostate cancer and can be used in  
 CC gene therapy techniques to suppress neoplastic growth of recipient cells  
 CC which carry the mutant HPC2 allele. The sequences represent primers used  
 CC in the methods of the invention, cDNA encoding human and mouse HPC2 and  
 CC cDNA encoding HPC2 paralogues and orthologues  
 XX XX

```

SQ Sequence 19 BP; 2 A; 6 C; 4 G; 7 T; 0 U; 0 Other;
  Query Match      58.2%; Score 12.8; DB 6; Length 19;
  Best Local Similarity 87.5%; Pred. No. 1.9e+04;
  Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      3 ATGTTACAGGTAGAAA 18
      ||||| ||||| |||||
DB      19 ATGTCACAGGCAGAAA 4

RESULT 11
AAT33010/c
ID AAT33010 standard; DNA; 20 BP.
XX
AC AAT33010;
XX
DT 23-OCT-1996 (first entry)
XX
DE Mouse SRY-related gene primer 2.
XX
KW Mouse; SRY; primer; PCR; polymerase chain reaction; amplification; probe;
KW HMG box; human; bovine; sex; animal; birth; ss.
XX
OS Synthetic.
XX
PN JP08154685-A.
XX
PD 18-JUN-1996.
XX
PF 30-NOV-1994; 94JP-00319525.
XX
PR 30-NOV-1994; 94JP-00319525.
XX
PA (KACH-) KACHIKU JUSEIRAN ISHOKU GIKUTSU KENKYUKU.
XX
DR WPI; 1996-336575/34.
XX
KW Bovine and mouse SRY-related DNA - useful for detecting e.g. the sex of
PT unborn animals.
XX
PS Example 2; Page 6; 21pp; Japanese.
XX
CC The primers AAT33009-10 were used to amplify a fragment of the gene
CC encoding a mouse SRY-related protein (AAT33007). This primer corresp. to
CC bases 7156-7175 of the mouse gene. The amplified fragment was used to
CC screen a mouse genomic library. The screen isolated 4 EcoRI fragments of
CC 2.3, 2.8, 3.5 and 1.5 kb covering the gene. Sequence analysis revealed a
CC 240 bp HMG box sequence between bases 7154-7393. Similarity with the
CC human SRY HMG box sequence resulted in primers being generated to amplify
CC the human SRY HMG box sequence for use as a probe to isolate the bovine
CC SRY-related gene (AAT33008). The mouse and bovine genes are useful for
CC determining the sex of an animal prior to birth
XX
SQ Sequence 20 BP; 4 A; 6 C; 4 G; 6 T; 0 U; 0 Other;
  Query Match      58.2%; Score 12.8; DB 2; Length 20;
  Best Local Similarity 87.5%; Pred. No. 1.9e+04;
  Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      7 TACAGGTAGAAAAGCC 22
      ||||| ||||| |||||
DB      20 TGCAGGTGGAAGGCC 5

RESULT 12
ABK87666/c
ID ABK87666 standard; DNA; 20 BP.
XX
AC ABK87666;
XX
DT 24-SEP-2002 (first entry)
XX
DE Transforming growth factor-beta 3 antisense oligonucleotide, SEQ ID 75.
KW Cytostatic; antirheumatic; antiarthritic; gynecological;
KW antiarteriosclerotic; Transforming Growth Factor beta-3; TGF beta-3;
KW hyperproliferative disorder; cancers; atherosclerosis;
KW rheumatoid arthritis; preeclampsia; fibrosis; phosphorothioate; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20

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DE Synthetic oligo #21, for selective randomisation of zinc finger protein.
XX
KW Selectively randomised synthetic oligonucleotide; NNN randomisation;
KW resin-splitting; zinc finger; ss.
XX
OS Synthetic.
XX
PN WO200222634-A1.
XX
PD 21-MAR-2002.
XX
PF 12-SEP-2001; 2001WO-GB004084.
XX
PR 12-SEP-2000; 2000GB-00022330.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Choo Y, Isalan M;
XX
DR WPI; 2002-507792/54.
XX
KW Making selectively randomized synthetic oligonucleotide by utilizing
PT phosphoramidite dinucleotide and mononucleotide synthesis strategy, where
PT a deprotecting step is performed after each coupling step.
XX
PS Example 3; Fig 1B; 42pp; English.
XX
CC The present invention relates to a new method of making selectively
CC randomised synthetic oligonucleotides. The method involves deprotecting
CC starting material at 3' position, which is coupled to support in nucleic
CC acid synthesiser, coupling dinucleotide phosphoramidite to 3' position,
CC deprotecting the new 3' position of extended oligonucleotide, coupling
CC mononucleotide phosphoramidite to the 3' position and repeating coupling
CC steps until desired length oligonucleotide is obtained. The method of the
CC invention is useful for making selectively randomised synthetic
CC oligonucleotides. Unlike prior art techniques, the method provides
CC randomised oligonucleotides without the problems of NNN randomisation,
CC without having to resort to complicated resin-splitting procedures or the
CC use of low coupling efficiency trinucleotide phosphoramidites. The
CC present nucleic acid sequence represents one of a collection (ABK87646-
CC ABK87669 and ABK87671-ABK87676) of synthetic oligonucleotides that were
CC used in the invention for selective randomisation of zinc finger protein
XX
SQ Sequence 20 BP; 1 A; 5 C; 2 G; 6 T; 0 U; 6 Other;
  Query Match      58.2%; Score 12.8; DB 6; Length 20;
  Best Local Similarity 61.1%; Pred. No. 1.9e+04;
  Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      4 TGTTCACAGGTAGAAAAGC 21
      |:::| |:::| |:::|
DB      19 TSYKCGAGKYTAGAAAAGC 2

RESULT 13
ADA66516/c
ID ADA66516 standard; DNA; 20 BP.
XX
AC ADA66516;
XX
DT 20-NOV-2003 (first entry)
XX
DE Transforming growth factor-beta 3 antisense oligonucleotide, SEQ ID 75.
KW Cytostatic; antirheumatic; antiarthritic; gynecological;
KW antiarteriosclerotic; Transforming Growth Factor beta-3; TGF beta-3;
KW hyperproliferative disorder; cancers; atherosclerosis;
KW rheumatoid arthritis; preeclampsia; fibrosis; phosphorothioate; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20

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FT FT /*tag= a
FT FT /mod_base= OTHER
FT FT /note= "This oligonucleotide has a phosphorothioate
FT FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',
FT FT and 3' ends, which are 5 nucleotides in length. Also all
FT FT cytidine residues are 5-methylcytidines"
XX WO2003008544-A2.
XX
XX PD 30-JAN-2003.
XX
XX PF 12-JUL-2002; 2002WO-US022423.
XX
XX PR 14-JUL-2001; 2001US-00906158.
XX
XX PA (ISIS-) ISIS PHARM INC.
XX
XX PI Monia BP, Freier SM;
XX
XX DR WPI; 2003-229569/22.
XX
XX PT Novel antisense compound which is targeted to nucleic acid encoding
XX PT transforming growth factor beta-3, and inhibits expression of TGF-beta 3,
XX PT useful for treating a condition associated with TGF-beta 3, e.g. cancer.
XX
XX PS Claim 3; Page 88; 154pp; English.
XX
XX CC The present invention relates to antisense oligonucleotides (ADA66459-
XX CC ADA6609), which inhibit Transforming Growth Factor (TGF) beta-3
XX CC expression. The oligonucleotides are useful for inhibiting the expression
XX CC of TGF-beta3 in cells or tissues, and for treating an animal having a
XX CC disease condition associated with TGF-beta3, e.g. a hyperproliferative
XX CC disorder such as cancers of lung, liver, colon, oesophagus, pancreas,
XX CC breast, skin or haematopoietic, atherosclerosis, rheumatoid arthritis,
XX CC pre-eclampsia and fibrosis.
XX
XX SQ Sequence 20 BP; 2 A; 5 C; 4 G; 9 T; 0 U; 0 Other;
XX
XX Query Match 58.2%; Score 12.8; DB 10; Length 20;
XX Best Local Similarity 87.5%; Pred. No. 1.9e+04;
XX Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 7 TACAGGTAGAAAGCC 22
DB 18 TACAGGGAGAAATCC 3

RESULT 14
ID ADG89282 standard; DNA; 21 BP.
XX
XX AC ADG89282;
XX
XX DT 11-MAR-2004 (first entry)
XX
XX DE Cancer detection method related oligonucleotide #230.
XX
XX ss; cancer; gene expression;
XX KW estrogen receptor-positive invasive breast cancer.
XX
XX OS Homo sapiens.
XX
XX PN WO2003078662-A1.
XX
XX PD 25-SEP-2003.
XX
XX PF 12-MAR-2003; 2003WO-US007713.
XX
XX PR 13-MAR-2002; 2002US-0364890P.
XX PR 18-SEP-2002; 2002US-0412049P.
XX
XX PA (GENO-) GENOMIC HEALTH INC.
XX

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PI Baker JB, Cronin MT, Kiefer MC, Shak S, Walker MG;
XX WPI; 2003-767536/72.
XX
XX PT Predicting clinical outcome for a patient diagnosed with cancer comprises
XX PT determining the expression level of one or more genes, and compared to
XX PT the amount found in a reference cancer tissue set.
XX
XX PS Disclosure; SEQ ID NO 230; 198pp; English.
XX
XX CC The invention relates to a method of predicting clinical outcome for a
XX CC patient diagnosed with cancer by determining the expression level of one
XX CC or more genes, or their expression products, selected from p53BP2,
XX CC cathepsin B, cathepsin L, Ki67/MiB1, and thymidine kinase in a cancer
XX CC tissue obtained from the patient, normalized against control gene(s), and
XX CC compared to the amount found in a reference cancer tissue set. The
XX CC specification also discloses an array comprising polynucleotides
XX CC hybridizing to the following genes: FOXM1, FRAME, Bcl2, STK15, CEGP1, Ki-
XX CC 67, GSTM1, CA9, PR, BCC3, NME1, SURV, CCNBI, XIAP, Chk2, CDC25B, IGFIR,
XX CC RPS6KB1, Sro, Chk1, ID1, EstR1, p27, CCNBI, XIAP, Chk2, CDC25B, IGFIR,
XX CC AKO55699, PI3KC2A, TGPB3, BAG1, CYP3A4, EpCAM, VEGFC, pS2, hENT1, WISP1,
XX CC HNF3A, NFKBp65, BRCA2, EGFR, TK1, VDR, Contig51037, pENT1, EPHX1, IFIA,
XX CC CDH1, HIF1t, IGFEBP3, CTSSB, Her2 and DIABLO, immobilized on a solid
XX CC surface. The methods are useful for predicting clinical outcome for a
XX CC patient diagnosed with cancer, classifying cancer, and predicting the
XX CC likelihood of long-term survival of a breast cancer patient, or a patient
XX CC diagnosed with invasive breast cancer or with estrogen receptor (ER)-
XX CC positive invasive breast cancer. This sequence corresponds to an
XX CC oligonucleotide used in the method of the invention.
XX
XX SQ Sequence 21 BP; 5 A; 6 C; 5 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 58.2%; Score 12.8; DB 10; Length 21;
XX Best Local Similarity 87.5%; Pred. No. 1.9e+04;
XX Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 7 TACAGGTAGAAAGCC 22
DB 21 TTCTGGTAGAAAGCC 6

RESULT 15
ID ADP27751/c
XX ADP27751 standard; DNA; 21 BP.
XX
XX AC ADP27751;
XX
XX DT 26-AUG-2004 (first entry)
XX
XX DE PCR primer to amplify a human cancer prognostic marker DNA SeqID 188.
XX
XX KW human; primer; PCR; prognostic marker; EGFR;
XX KW epidermal growth factor receptor; cancer; gene expression profiling;
XX KW microarray; head and neck cancer; colon cancer; metastatic spread;
XX KW neoplastic disease; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO2004046386-A1.
XX
XX PD 03-JUN-2004.
XX
XX PF 14-NOV-2003; 2003WO-US036777.
XX
XX PR 15-NOV-2002; 2002US-0427090P.
XX
XX PA (GENO-) GENOMIC HEALTH INC.
XX PA (VALL-) VALL HEBRON UNIV HOSPITAL.
XX
XX PI Baker JB, Cronin MT, Shak S, Baselga J;
XX WPI; 2004-420643/39.
XX

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PT Prognosing a patient with EGFR-expressing colon cancer comprises  
 PT subjecting a sample comprising EGFR-expressing cancer cells to  
 PT quantitative analysis of the expression level of the RNA transcript of at  
 PT least one gene e.g., CD44v3.

PS Claim 54; SEQ ID NO 188; 113pp; English.

XX This invention relates to a novel method concerning prognostic markers  
 CC associated with EGFR (epidermal growth factor receptor) positive cancer.  
 CC Specifically, it refers to a gene expression profiling method that can  
 CC provide a prediction as to whether a patient is likely to respond well to  
 CC treatment with an EGFR inhibitor. The present invention describes the  
 CC quantitative analysis of the expression level of the RNA transcript of at  
 CC least one gene selected from the group of CD44v3, CD44v6, DR5, GRI1,  
 CC KR17, LAMC2 or their products thereof. It further provides a cDNA  
 CC microarray containing named genes that represent prognostic transcripts  
 CC which are useful for determining whether a patient diagnosed with an EGFR  
 CC -expressing head or neck cancer or colon cancer exhibits elevated or  
 CC decreased expression levels of these genes compared to normal. As such,  
 CC these methods are also useful for prognosing or predicting the likelihood  
 CC of cancer-attributable death or progression, including recurrence and  
 CC metastatic spread of a neoplastic disease, as well as drug resistance.  
 CC This oligonucleotide sequence is a PCR primer used to amplify a human PCR  
 CC amplicon DNA sequence used as a prognostic cancer marker, given in an  
 CC exemplification of the invention.

XX Sequence 21 BP; 5 A; 6 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 58.2%; Score 12.8; DB 12; Length 21;  
 Best Local Similarity 87.5%; Pred. No. 1.9e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22  
 Db 21 TTCTGGTAGAAAAGCC 6

RESULT 16  
 ADR00153/c  
 ID ADR00153 standard; DNA; 21 BP.

XX ADR00153;  
 AC  
 DT 21-OCT-2004 (first entry)  
 XX  
 DE COX2 probe, SEQ ID 191.  
 XX  
 KW Breast cancer; human; ss; probe; COX2.

OS Homo sapiens.  
 XX  
 XX WO2004065583-A2.

PN 05-AUG-2004.

PD 14-JAN-2004; 2004WO-US0000985.

PF 15-JAN-2003; 2003US-0440861P.

PR (GENO-) GENOMIC HEALTH INC.  
 XX (UYRU-) UNIV RUSH MEDICAL CENT.

XX Cobleigh MA, Shak S, Baker JB, Cronin MT;

PI WPI; 2004-593480/57.

XX Predicting likelihood of long-term survival of a breast cancer patient  
 PT without the recurrence of breast cancer by determining the expression  
 PT level of prognostic RNA transcripts or their expression products in a  
 PT breast cancer tissue sample.

PS Claim 33; SEQ ID NO 191; 125pp; English.

CC The present invention relates to a method for predicting the likelihood  
 CC of long-term survival of a breast cancer patient without the recurrence  
 CC of breast cancer. The method comprises determining the expression level  
 CC of one or more prognostic RNA transcripts or their expression products in  
 CC a breast cancer tissue sample obtained from the patient. The prognostic  
 CC RNA transcript is the transcript of one or more genes, e.g. TP53BP2,  
 CC GRB7, PR, CD68, Bcl2, KRT14, IRS1, CTSL, ESR1, Chk1, IGFBP2, BAG1,  
 CC CEGP1, STK15, GSTM1, FHT, RIZ1, AIB1, SURV, BBC3, TOP2B, MDM2, RAD51C,  
 CC ZNF217, EGFR, CD9, MYBL2, HIF1alpha, p52, Erbb3, TOP2B, MDM2, RAD51C,  
 CC KRT19, TS, Her2, KLU10, beta-Catenin, gamma-Catenin, MCM2, PI3KC2A, IGF1,  
 CC TBP, CCNB1, FBXO5, or DR5, where expression of one or more of GRB7, CD68,  
 CC CTSL, Chk1, AIB1, CCNB1, MCM2, FBXO5, Her2, STK15, SURV, EGFR, MYBL2,  
 CC HIF1alpha, or TS indicates a decreased likelihood of long-term survival  
 CC without breast cancer recurrence, and where the expression of one or more  
 CC of TP53BP2, PR, Bcl2, KRT14, ESR1, IGFBP2, BAG1, CEGP1, KLU10, beta-  
 CC Catenin, gamma-Catenin, DR5, PI3KCA2, RAD51C, GSTM1, FHT, RIZ1, BBC3,  
 CC TBP, p27, IRS1, IGF1R, GATA3, ZNF217, CD9, p52, Erbb3, TOP2B, MDM2, IGF1,  
 CC or KRT19 indicates an increased likelihood of long-term survival without  
 CC breast cancer recurrence. The present sequence is a probe used to amplify  
 CC one such prognostic gene of the invention.

XX Sequence 21 BP; 5 A; 6 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 58.2%; Score 12.8; DB 13; Length 21;  
 Best Local Similarity 87.5%; Pred. No. 1.9e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22  
 Db 21 TTCTGGTAGAAAAGCC 6

RESULT 17  
 ADRQ13916/c  
 ID ADRQ13916 standard; DNA; 20 BP.

XX ADRQ13916;

XX 07-OCT-2004 (first entry)

DE DMD region PCR primer, SEQ ID 311.

XX Human; SCAIP; dystrophin; Duchenne Muscular Dystrophy; DMD;  
 KW Becker Muscular Dystrophy; BMD; PCR; primer; ss;  
 KW Single Condition Amplification/ Internal Primer.

XX Homo sapiens.

XX WO2004058985-A2.

XX 15-JUL-2004.

XX 17-DEC-2003; 2003WO-US040278.

XX 17-DEC-2002; 2002US-0433774P.

XX (UTAH ) UNIV UTAH RES FOUND.

XX Flanigan KM, Weiss RB, Dunn DM, Von Niederhausen A;

XX WPI; 2004-525893/50.

XX Characterizing a nucleic acid region, useful for detecting genetic  
 PT mutations in any large multi-exon gene e.g., those indicating  
 PT dystrophinopathy, comprises using a Single Condition  
 PT Amplification/Internal Primer (SCAIP) sequencing method.

XX Example 1; Page 34; 174pp; English.

XX The present invention relates to a Single Condition Amplification/  
 CC Internal Primer (SCAIP) sequencing method for direct sequence analysis of  
 CC large multi-exon genes from genomic DNA samples and identifying mutations  
 CC in multi-exon genes e.g. the dystrophin gene, CAPN3 gene and DYSF gene.

CC Mutations in the dystrophin gene result in both Duchenne Muscular  
 CC Dystrophy (DMD) and Becker Muscular Dystrophy (BMD). Mutations in the  
 CC CAPN3 gene, encoding calpain (calcium-activated neutral protease) result  
 CC in limb-girdle muscular dystrophy type 2A (LGMD2A) and mutations in the  
 CC DYSF gene, encoding dysferlin, result in limb-girdle muscular dystrophy  
 CC type 2B (LGMD2B). The method comprises bringing into contact in each of  
 CC the reaction chambers an amplicon from a different one of the  
 CC amplification reactions and one or more internal sequencing primers  
 CC corresponding to the amplicon and analysing the sequences of the  
 CC amplicons. The method allows for the rapid, accurate, and economical  
 CC analysis of any large multi-exon gene. The method is useful in detecting  
 CC genetic mutations in any large multi-exon gene. It is also useful for the  
 CC identification and analysis of specific individual genomic mutations  
 CC including deletions, point mutations, or its combinations, gene complexes  
 CC with multiple exons/introns spanning large genomic regions. The present  
 CC sequence is a PCR primer, used in the method of the invention.

SQ Sequence 20 BP; 3 A; 4 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 57.3%; Score 12.6; DB 12; Length 20;  
 Best Local Similarity 78.9%; Pred. No. 2.4e+04;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAAGCC 22  
 | | | | | | | | | |  
 Db 20 TCTTACAGCAGAAAGGCC 2

## RESULT 18

ADD18145

ID ADD18145 standard; DNA; 20 BP.

XX AC

XX AD18145;

DT 15-JAN-2004 (first entry)

DE Human G-protein coupled receptor (GPCR) related PCR primer Seq ID44.

XX G protein coupled receptor; GPCR; signal transduction pathway; G protein;  
 KW Alzheimer's disease; Parkinson's disease; diabetes; dwarfism;  
 KW colour blindness; retinal pigmentosa; asthma; depression; schizophrenia;  
 KW sleeplessness; hypertension; anxiety; stress; renal failure;  
 KW cardiovascular disorder; neural disorder; oncology disorder;  
 KW immune disorder; neuroprotective; gene therapy; PCR; primer; ss.

XX Homo sapiens.

XX WO2003016478-A2.

XX 27-FEB-2003.

XX 15-AUG-2002; 2002WO-US026017.

XX 20-AUG-2001; 2001US-0313658P.

XX 12-SEP-2001; 2001US-0318675P.

XX 30-OCT-2001; 2001US-0340703P.

XX 26-NOV-2001; 2001US-0333417P.

XX 06-DEC-2001; 2001US-0338367P.

XX (BRIM ) BRISTOL-MYERS SQUIBB CO.

PI Feder JN, Ramanathan CS, Gopal S, Mintier GA;

XX WPI; 2003-278558/27.

XX New nucleic acid, useful for manufacturing a medicament for preventing,  
 PT treating or ameliorating a medical condition e.g., neural disorder.

XX Example 1; SEQ ID NO 44; 251pp; English.

PS This invention relates to novel G protein coupled receptors (GPCRs) and  
 CC their encoding nucleotide sequences. Many medically significant

CC biological processes are mediated by proteins participating in signal  
 CC transduction pathways involving G proteins. GPCRs are one of the largest  
 CC receptor superfamilies known. These receptors are biologically important  
 CC and malfunction of these receptors results in diseases such as  
 CC Alzheimer's, Parkinson's, diabetes, dwarfism, colour blindness, retinal  
 CC pigmentosa and asthma. They are also involved in depression, renal  
 CC schizophrenia, sleeplessness, hypertension, anxiety, stress, renal  
 CC failure and other cardiovascular, neural, oncology and immune disorders.  
 CC A modulator of the GPCRs of the invention may have neuroprotective  
 CC activity whilst the sequences of the invention may be useful for gene  
 CC therapy. The invention may also be useful for manufacturing a medicament  
 CC for preventing, treating or ameliorating a medical condition. The present  
 CC sequence is that of a PCR primer which was used for amplification of a  
 CC region of a gene encoding a human GPCR during the exemplification of the  
 CC invention.

SQ Sequence 20 BP; 9 A; 3 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 56.4%; Score 12.4; DB 10; Length 20;  
 Best Local Similarity 92.9%; Pred. No. 3e+04;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAAGCC 22  
 | | | | | | | | | |  
 Db 2 CAGGAAGAAAAGCC 15

## RESULT 19

AD141032

ID AD141032 standard; DNA; 20 BP.

XX AC

XX AD141032;

DT 22-APR-2004 (first entry)

DE Human HGPBEM742 gene specific antisense primer.

XX Human; ss; primer; GPCR; G protein-coupled receptor;  
 KW reproductive disorder; testicular disorder; vas deferens disorder;  
 KW spermatogenesis; infertility; XX male; epididymitis; cryptorchidism;  
 KW sperm transport disorder; testicular cancer; testicular germ cell tumour;  
 KW male hormone disorder; premature puberty; Kallman syndrome;  
 KW Cushing's syndrome; immune disorder; leukaemia; arthritis; asthma; AIDS;  
 KW rheumatoid arthritis; inflammatory bowel disease; sepsis;  
 KW T-cell mediated cytotoxicity; graft-versus-host disease;  
 KW autoimmunity disorder; systemic lupus erythematosus;  
 KW drug induced haemolytic anaemia; Sjogren's disease;  
 KW T-cell maturation disorder; B-cell maturation disorder;  
 KW vascular disorder; stroke; ischaemia; myocardial infarction;  
 KW atherosclerosis; gastrointestinal disorder; ulcer; pulmonary disorder;  
 KW brain disorder; endocrine disorder; cancer; gene therapy; PCR.

XX Homo sapiens.

XX US2004018976-A1.

XX 29-JAN-2004.

XX 13-MAY-2003; 2003US-00436715.

XX 14-MAY-2002; 2002US-0380336P.

XX (FEDE/) FEDER J N.

XX (MINT/) MINTIER G.

XX (RAWA/) RAMANATHAN C S.

XX Feder JN, Mintier G, Ramanathan CS;

XX WPI; 2004-122081/12.

XX New human G-protein coupled receptor polypeptide and polynucleotide,  
 PT useful for diagnosing, preventing, treating or ameliorating a medical  
 PT condition, e.g. reproductive disorder, immunodeficiency disease or

PT testicular cancer.

PS Example 4; SEQ ID NO 92; 290pp; English.

XX

CC The invention relates to an isolated human G protein-coupled receptor polypeptide and its encoding polynucleotide, including the full length polypeptide minus the start methionine (and the region of the polynucleotide proteins minus this protein region). The proteins are designated HGPRBM30-1, HGPRBM30-2, HGPRBM30-3, HGPRBM41-1, HGPRBM41-2, HGPRBM41-3, HGPRBM42, HGPRBM42-1, HGPRBM43 and HGPRBM44. Also included are expression vectors, host cells, antibodies, preventing (treating or ameliorating) a medical condition comprising administering to a mammalian subject the polypeptide or its modulator and diagnosing a pathological condition or a susceptibility to a pathological condition in a subject (comprising determining the presence or absence of a mutation in the polynucleotide, or the presence or amount of expression of the polypeptide in a biological sample and diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or absence of the mutation, or the presence or amount of expression of the polypeptide). The human G-protein coupled receptor polypeptide or polynucleotide can be used for diagnosing a pathological condition or a susceptibility to a pathological condition in a subject, and for preventing, treating or ameliorating a medical condition, such as a disorder related to aberrant G-protein coupled receptor activity, a disorder related to aberrant signal transduction, a reproductive disorder; a male reproductive disorder, a testicular disorder, a vas deferens disorder, spermatogenesis, infertility, Klinefelter's syndrome, XX male, epididymitis, genital warts, germinal cell aplasia, cryptorchidism, varicocele, immotile cilia syndrome, viral orchitis, sperm transport disorders, testicular cancer, choriocarcinoma, non-seminoma, seminoma, testicular germ cell tumours, male hormone disorders, premature puberty, incomplete puberty, Kallman syndrome, Cushing's syndrome, an immune disorder, a proliferative immune disorder, leukaemia, arthritis, asthma, granulomatous diseases such as AIDS, rheumatoid arthritis, immunodeficiency diseases, inflammatory bowel disease, sepsis, acne, neutropenia, neutrophilia, psoriasis, hypersensitivities, such as T-cell mediated cytotoxicity, immune reactions to transplanted organs and tissues, such as host-versus-graft and graft-versus-host diseases, or autoimmune disorders, such as autoimmune infertility, demyelination, systemic lupus erythematosus, drug induced haemolytic anaemia, Sjogren's disease, scleroderma, T-cell maturation disorders, B-cell maturation disorders, vascular disorders, stroke, ischaemia, myocardial infarction, atherosclerosis, embolisms, thrombosis, gastrointestinal disorders, irritable bowel syndrome, ulcers, pulmonary disorders, brain disorders, endocrine disorders, or ovarian, stomach, colon or kidney cancer or its related proliferative condition (many other diseases and disorders are listed in the specification). The antibodies may be used to purify, detect and target the G-protein coupled receptor polypeptides. The polynucleotides are also useful in gene therapy. The present sequence is a gene specific PCR primer for a nucleic acid encoding a novel GPCR of the invention.

XX

SEQ Sequence 20 BP; 9 A; 3 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 56.4%; Score 12.4; DB 12; Length 20;

Best Local Similarity 92.9%; Pred. No. 3e+04; Indels 0; Gaps 0;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAGGCC 22

Db 2 CAGGAAGAAAGGCC 15

|||||

RESULT 20

ABT16558/c

ID ABT16558 standard; DNA; 21 BP.

XX

AC ABT16558;

XX

DT 03-APR-2003 (first entry)

XX

DE Ethylene insensitivity related PCR primer SEQ ID No 32.

XX

Mutant; transformed plant; ethylene-response DNA-binding factor; edf1; edf2; edf3; edf4; fruit; transgenic plant; floral industry; fruit processing industry; floral senescence; flower longevity; decreased floral initiation; post-harvest; transportation; PCR; primer; ss.

Unidentified.

XX

PN W0200289555-A2.

XX

PD 14-NOV-2002.

XX

PP 08-MAY-2002; 2002WO-US014592.

XX

PR 08-MAY-2001; 2001US-0289364P.

PR 08-MAY-2001; 2001US-0289835P.

XX

PA (SALK ) SALK INST BIOLOGICAL STUDIES.

XX

PI Stepanova AN, Ecker JR;

XX

DR WPI; 2003-120491/11.

XX

DR Novel mutant or transformed plant comprising mutated forms of edf1, edf2, edf3 and edf4 genes, and having decreased ethylene sensitivity, such that its fruit ripens more slowly than wild-type version of the plant.

PT

PT Disclosure; Page 35; 85pp; English.

XX

PS The invention relates to a mutant or transformed plant comprising mutated forms of ethylene-response DNA-binding factors (edf1, edf2, edf3 and edf4 genes such that the plant exhibits a decreased response to ethylene, and comprises fruit which ripens more slowly than a wild-type version of the plant. The transgenic plants having reduced sensitivity to ethylene are useful for floral industry and fruit processing industries. Since ethylene is involved in floral senescence, the modified plants have longer flower longevity. The modified plants e.g. lettuce, spinach, other leafy vegetables provide higher yields due to decreased floral initiation, since the transformed plants do not bolt or flower easily. The plants provide fruits which ripens more slowly than the wild-type version of the plant, and thus are advantageous in post-harvest and transportation conditions. This polynucleotide sequence represents a PCR primer relating to the ethylene sensitivity modulation process of the invention

XX

SEQ Sequence 21 BP; 6 A; 4 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 56.4%; Score 12.4; DB 10; Length 21;

Best Local Similarity 92.9%; Pred. No. 3e+04; Indels 0; Gaps 0;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTA 14

Db 18 GCATGTTACAGGTA 5

|||||

RESULT 21

AAQ61732

ID AAQ61732 standard; cDNA; 18 BP.

XX

AC AAQ61732;

XX

DT 25-MAR-2003 (revised)

DT 21-OCT-1994 (first entry)

XX

DE HEV strain BUR-121 primer R133.

XX

XX Hepatitis E virus; HEV; strain SAR-55; open reading frame; ORF; PCR; antibody; detection; diagnosis; primates; stool suspension; amplify; polymerase chain reaction; primer; burma; strain BUR-121; ss.

XX

XX Synthetic.



CC proteins, especially ORF-2 protein. The recombinant HEV proteins can be  
 CC used as diagnostic agents and as vaccines for use against HEV infection.  
 CC The detection of antibodies specific for HEV can be used for the  
 CC diagnosis of infection and diseases caused by HEV, and for monitoring the  
 CC progression of such disease. Such methods are also useful for monitoring  
 CC the efficacy of therapeutic agents during the course of treatment of HEV  
 CC infection and disease in a mammal. The antibodies can be used for  
 CC detection or for passive immunisation of mammals  
 XX  
 SQ Sequence 18 BP; 8 A; 5 C; 3 G; 2 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 2; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 3.7e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Qy 5 GTTACAGGTAGAAAGC 21  
 Db 2 GTTACAGCCAGAAACC 18  
 RESULT 24  
 ID AAZ70423 standard; DNA; 18 BP.  
 XX  
 AC AAZ70423;  
 XX  
 DT 10-SEP-2001 (first entry)  
 DE Human biallelic marker upstream amplification primer SEQ ID NO:4779.  
 XX  
 KW Human genome; biallelic marker; high density disequilibrium map;  
 KW genomic map; haplotype; phenotype; polymorphic base; genotyping;  
 KW haplotyping; hybridisation; identification; characterisation;  
 KW amplification; single nucleotide polymorphism; SNP; PCR primer;  
 KW diagnosis; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO9954500-A2.  
 PD 28-OCT-1999.  
 XX  
 PF 21-APR-1999; 99WO-IB000822.  
 XX  
 PR 21-APR-1998; 98US-0082614P.  
 PR 23-NOV-1998; 98US-0109732P.  
 XX  
 PA (GSEST ) GENSET.  
 XX  
 PI Cohen D, Blumenfeld M, Chumakov I;  
 XX  
 DR WPI; 2000-013267/01.  
 XX  
 PT Novel biallelic markers used to construct a high density disequilibrium  
 PT map of the human genome.  
 XX  
 PS Claim 8; Page 1250; 2745pp; English.  
 XX  
 CC AAZ65654 to AAZ69578 represent human biallelic markers from the present  
 CC invention, which contain a polymorphic base at position 24 of their  
 CC nucleotide sequences AAZ69579 to AAZ77440 represent amplification  
 CC primers for the biallelic markers. The biallelic markers of the invention  
 CC have a variety of uses: they can be used for high density mapping of the  
 CC human genome, and in complex association studies and haplotyping studies  
 CC which are useful in determining the genetic basis for disease states.  
 CC Compositions and methods of the invention can also be useful for the  
 CC identification of the targets for the development of pharmaceutical  
 CC agents and diagnostic methods, as well as the characterisation of the  
 CC differential efficacious responses to and side effects from  
 CC pharmaceutical agents acting on a disease as well as other treatment.  
 CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and  
 CC 3367, are not actually given a sequence in the Sequence Listing from the  
 CC present invention

XX  
 SQ Sequence 18 BP; 6 A; 0 C; 9 G; 3 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 3; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 3.7e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Qy 4 TGTACAGGTAGAAAG 20  
 Db 1 TGTGAGAGGTAGAGAAG 17  
 RESULT 25  
 ABN89231/C  
 ID ABN89231 standard; DNA; 20 BP.  
 XX  
 AC ABN89231;  
 XX  
 DT 29-AUG-2002 (first entry)  
 DE Human Talin antisense phosphorothioate oligonucleotide SEQ ID NO:44.  
 XX  
 KW Human; Talin; antimicrobial; antiinflammatory; cytostatic; inhibitor;  
 KW antisense gene therapy; infection; inflammation; Talin inhibitor; tumour;  
 KW antisense oligonucleotide; phosphorothioate; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "phosphorothioate backbone"  
 FT modified\_base 1..5  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX  
 XX US6372492-B1.  
 XX  
 PD 16-APR-2002.  
 XX  
 PF 30-OCT-2000; 2000US-00702251.  
 XX  
 PR 30-OCT-2000; 2000US-00702251.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett CF, Cowse LM;  
 XX  
 DR WPI; 2002-470102/50.  
 XX  
 PT New antisense compound useful for inhibiting expression of Talin and for  
 PT preventing or delaying infection, inflammation or tumor formation.  
 XX  
 PS Example 15; Col 41; 46pp; English.  
 XX  
 CC The present invention describes an antisense compound (I), 16 to 30 bases  
 CC in length targeted to specific base regions of a nucleic acid encoding  
 CC human Talin. Also described: (a) an antisense compound up to 30 bases in  
 CC length which inhibits the expression of human Talin; (b) a composition  
 CC (ii) comprising (i) or (a); and (c) inhibiting the expression of human  
 CC Talin in human cells or tissues comprising contacting the cells or  
 CC tissues in vitro with (i) or (a). (i) has antimicrobial, antiinflammatory  
 CC and cytostatic activities, and can be used in antisense gene therapy and  
 CC as a Talin expression inhibitor. (i) can be used to inhibit the  
 CC expression of human Talin in human cells or tissues; to prevent or delay  
 CC infection, inflammation or tumour formation; and in diagnostics,  
 CC therapeutics, prophylaxis, and in research reagents and kits. The present



CC sequence represents a human Talin antisense chimeric phosphorothioate  
 CC oligonucleotide, having 2'-methoxyethyl (2'-MOE) wings of 5 nucleotides  
 CC at the 5' and 3' ends and a 10 nucleotide deoxy gap in the middle, which  
 CC is used in an example from the present invention

XX SQ Sequence 20 BP; 3 A; 8 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 6; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 3.8e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 4 TGTTACAGGTAGAAAAG 20  
 Db 19 TGTTGACGGCAGCAAAG 3

RESULT 26  
 ADG90494/c  
 ID ADG90494 standard; DNA; 20 BP.  
 XX AC ADG90494;  
 XX DT 11-MAR-2004 (first entry)  
 XX DE Human talin phosphorothioate antisense oligonucleotide, SEQ ID NO:44.  
 XX KW Human; talin; cellular adhesion; muscle strength; cardiac function;  
 KW cardiomyocyte; platelet; prostate; androgen downregulation;  
 KW prostate cancer; talin-related disorder;  
 KW cellular adhesion-related disorder; expression inhibition;  
 KW antisense therapy; phosphorothioate; antisense oligonucleotide; ss.  
 XX OS Homo sapiens.

XX FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod base  
 FT /note= "This oligonucleotide has a phosphorothioate  
 FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5'  
 FT and 3' ends, which are 5 nucleotides in length. Also all  
 FT cytosine nucleotides are 5-methylcytosines"

XX PN WO200268446-A1.  
 XX PD 06-SEP-2002.  
 XX PF 30-OCT-2001; 2001WO-US048435.  
 XX PR 22-FEB-2001; 2001US-00791942.  
 XX PA (ISIS-) ISIS PHARM INC.  
 XX PA (BOH ) BOEHRINGER INGELHEIM PHARM INC.  
 XX PI Bennett CF, Rothlein R, Kishimoto TK, Cowsett LM;  
 XX WPI; 2002-691651/74.  
 XX New antisense oligonucleotides targeted to nucleic acid molecules  
 PT encoding human Talin, useful for inhibiting the expression of human Talin  
 PT and for treating a human having a disease or condition associated with  
 PT Talin.

XX PS Example 15; SEQ ID NO 44; 114pp; English.  
 XX Sequences ADG90460-ADG90539 represent phosphorothioate targeted to the  
 CC human talin gene, which inhibit its expression. The antisense were  
 CC designed to target different regions of human talin RNA, and were  
 CC analysed for their effect on talin expression by quantitative real-time  
 CC PCR. Talin is a cytoplasmic protein which links cytoskeletal proteins  
 CC such as actin, myosin and vinculin to integrins, thereby linking the  
 CC extracellular matrix to other cells. It is thought to be involved in the  
 CC regulation of cellular adhesion and cell morphology. Talin is highly

CC expressed in platelets, and may play a role in platelet adhesion as its  
 CC subcellular distribution differs between resting non-adhesive platelets  
 CC and activated adhesive platelets. It could also play a major role in  
 CC determining muscle strength and cardiac function as it has been found to  
 CC participate in the transmission of contractile force to the extracellular  
 CC matrix in cardiomyocytes, and exhibits mechanical loading-dependent  
 CC expression at myotendinous junctions. The expression of talin is  
 CC downregulated by androgens in prostate tissues, a phenomenon known to  
 CC contribute to the development of prostate cancer. The oligonucleotides of  
 CC the invention are useful for diagnosis, prevention and treatment of talin  
 CC -related disorders, such as those related to cellular adhesion. The  
 CC present sequence represents a human c-Ha-ras phosphorothioate antisense  
 CC oligonucleotide used as a positive control in determining optimal  
 XX oligonucleotide concentration for a particular cell line.

SQ Sequence 20 BP; 3 A; 8 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 6; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 3.8e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 TGTTACAGGTAGAAAAG 20  
 Db 19 TGTTGACGGCAGCAAAG 3

RESULT 27  
 ADG65754  
 ID ADG65754 standard; DNA; 20 BP.  
 XX AC ADG65754;  
 XX DT 18-DEC-2003 (first entry)  
 XX DE Human TGF-beta receptor II targeted antisense oligonucleotide #31.  
 XX KW human; antisense oligonucleotide;  
 KW transforming growth factor beta receptor II; TGF-beta receptor II;  
 KW hyperproliferative disorder; breast cancer; autoimmune disorder;  
 KW rheumatoid arthritis; 2'-O-methoxyethyl gapmer;  
 KW phosphorothioate backbone; ss.

XX OS Homo sapiens.  
 XX PN WO2003000656-A2.  
 XX PD 03-JAN-2003.  
 XX PF 19-JUN-2002; 2002WO-US019665.  
 XX PR 21-JUN-2001; 2001US-00888361.  
 XX PA (ISIS-) ISIS PHARM INC.  
 XX PI Murray SF, Wyatt JR;  
 XX WPI; 2003-175279/17.  
 XX New compound having a sequence targeted to a nucleic acid encoding  
 PT transforming growth factor beta-receptor II, useful for preparing a  
 PT composition for treating hyperproliferative disorder e.g., lung, liver,  
 PT colon or gastric cancer.  
 XX PS Claim 3; SEQ ID NO 50; 141pp; English.

XX The invention comprises antisense oligonucleotides that are targeted to  
 CC the nucleic acid encoding transforming growth factor beta (TGF-beta)  
 CC receptor II. The antisense oligonucleotides of the invention are useful  
 CC for treating hyperproliferative disorders (e.g. breast cancer), or an  
 CC autoimmune disorder (e.g. rheumatoid arthritis). The present DNA sequence  
 CC represents a 2'-O-methoxyethyl gapmer oligonucleotide with a  
 CC phosphorothioate backbone that is targeted to human TGF-beta receptor II.

SQ Sequence 20 BP; 7 A; 4 C; 5 G; 4 T; 0 U; 0 Other;  
Query Match 55.5%; Score 12.2; DB 10; Length 20;  
Best Local Similarity 82.4%; Pred. No. 3.8e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 5 GTTACAGGTAGAAAAGC 21  
Dy 1 GTCACAGGTGAAAATC 17

RESULT 28  
ADF90932  
ID ADF90932 standard; DNA; 20 BP.  
XX AC  
XX ADF90932;  
XX DT 26-FEB-2004 (first entry)  
XX DE Microorganism detection PCR primer, SEQ ID 15.  
XX KW Detection; microorganism; PCR; primer; bacterium; fungus; protozoan;  
XX KW virus; diarrhoea; food poisoning; ss.  
XX OS Clostridium botulinum.  
XX FN JP2003164282-A.  
XX PD 10-JUN-2003.  
XX PF 29-NOV-2001; 2001JP-00365153.  
XX PR 29-NOV-2001; 2001JP-00365153.  
XX PA (RAKA-) RAKAN KK.  
XX PA (GIFU-) GIFU DAIGAKUCHO.  
XX DR WPI; 2003-793230/75.  
XX PT Rapid, sensitive detection of specific or unspecified microbes causing  
PT diarrhea and food poisoning, using primers which target universal and  
PT specific genes, and amplifying by PCR under heat cycle conditions  
PT suitable for many detections.  
XX PS Claim 1; SEQ ID NO 15; 69pp; Japanese.  
XX CC The present invention relates to a method for detecting microorganisms  
CC using primers (ADF90918-ADF91145). The method is used for detecting  
CC microorganisms (bacteria, fungi, protozoa, viruses) which cause diarrhoea  
CC symptoms, and pathogenic microbes of food poisoning. The method can be  
CC used to detect unspecified microbes, or specific pathogens, or for the  
CC simultaneous detection of many kinds of microorganism.  
XX SQ Sequence 20 BP; 9 A; 2 C; 5 G; 4 T; 0 U; 0 Other;  
Query Match 55.5%; Score 12.2; DB 10; Length 20;  
Best Local Similarity 82.4%; Pred. No. 3.8e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 5 GTTACAGGTAGAAAAGC 21  
Dy 2 GTTACAGCTAGAAAAC 18

RESULT 29  
ABZ86479/c  
ID ABZ86479 standard; DNA; 20 BP.  
XX AC  
XX ABZ86479;  
XX DT 17-OCT-2003 (first entry)  
XX DE Human oligonucleotide sequence.

SQ Sequence 20 BP; 8 A; 4 C; 2 G; 6 T; 0 U; 0 Other;  
Query Match 55.5%; Score 12.2; DB 10; Length 20;  
Best Local Similarity 82.4%; Pred. No. 3.8e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 4 TGGTACAGGTAGAAAAG 20  
Dy 18 TTTTACATGTAGCAAG 2

RESULT 30  
ABD22709/c  
ID ABD22709 standard; DNA; 20 BP.  
XX AC  
XX ABD22709;  
XX DT 29-JUL-2004 (first entry)  
XX DE Human myosin X-derived oligonucleotide SEQ ID 1721.

XX Human; antisense; lung dysfunction; nasal airway dysfunction;  
KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
KW lung inflammation; respiratory disease; ds.  
XX OS Homo sapiens.  
XX PN WO200285308-A2.  
XX PD 31-OCT-2002.  
XX PF 23-APR-2002; 2002WO-US013135.  
XX PR 24-APR-2001; 2001US-0286137P.  
XX PA (EPIG-) EPIGENESIS PHARM INC.  
XX PY Nyce JW, Li Y, Sandrasegura A, Katz E, Pabalan J, Aguilar D;  
PI Miller S, Tang L, Shahabuddin S;  
XX DR WPI; 2003-229219/22.  
XX PT Pharmaceutical composition for treating ailments associated with impaired  
PT respiration, has oligo(s) antisense to specific gene(s) or its  
PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
PT ubiquinone.  
XX PS Claim 15; SEQ ID NO 1721; 872pp; English.  
XX CC The invention relates to a novel pharmaceutical composition, which has a  
CC first active agent comprising an oligonucleotide antisense to the  
CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
CC junctions of genes encoding a polypeptide associated with lung and/or  
CC nasal airway dysfunction and a second active agent comprising an  
CC antiinflammatory steroid and ubiquinone. A composition of the invention  
CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
CC immunosuppressive, and cytostatic activity. The composition may have a  
CC use in antisense gene therapy. The composition is useful for treating or  
CC preventing a respiratory, lung or malignant disease or condition, also  
CC for enhancing the prophylactic or therapeutic respiratory effect of an  
CC antiinflammatory steroid in a subject, for reducing or depleting levels  
CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
CC lung inflammation, lung allergies, or a respiratory disease or condition.  
CC Note: The sequence data for this patent is not represented in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences  
XX SQ



```

RESULT 32
AAC73052
ID AAC73052 standard; DNA; 21 BP.
AC AAC73052;
XX
XX 09-FEB-2001 (first entry)
XX
XX Single nucleotide polymorphism PCR primer #1921.
XX
XX Single nucleotide polymorphism; SNP; human; genetic disease;
KW disease susceptibility; cardiovascular system; endocrine system;
KW neurological system; forensic testing; paternity testing; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX WO200058519-A2.
XX
XX '05-OCT-2000.
XX
XX 30-MAR-2000; 2000WO-US008440.
XX
XX 31-MAR-1999; 99US-0127248P.
XX
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX
XX (AFFY-) AFFYMETRIX INC.
XX
XX PI Altschuler D, Cargill M, Daley GQ, Ireland JS, Lander ES;
XX PI Lipshutz RJ, Patil N, Sklar P;
XX
XX WPI; 2000-611722/58.
XX
XX Nucleic acid selected from one of 106 genes comprising single nucleotide
XX polymorphisms, allele-specific oligonucleotides to the genes are useful
XX for phenotypic correlations, forensics, paternity testing, medicine and
XX genetic analysis.
XX
XX Claim 8; Fig 5; 214pp; English.
XX
XX The present invention is concerned with a number of human single
XX nucleotide polymorphisms (SNPs) which the inventors identified in human
XX genes. These SNPs can be used in disease diagnosis and prediction of an
XX individual's susceptibility to disease, in forensic and paternity testing
XX and in genetic mapping. In particular, the SNPs of the invention can be
XX used to diagnose susceptibility to diseases of the cardiovascular,
XX endocrine and neurological systems, such as coronary artery disease,
XX schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's
XX diseases
XX
XX Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 55.5%; Score 12.2; DB 3; Length 21;
XX Best Local Similarity 82.4%; Pred. No. 3.8e+04;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 6 TTACAGGTAGAAAAGCC 22
XX 2 TTCTAGGGAGAAAAGCC 18
XX
XX
XX RESULT 33
XX ABK41026/c
XX ID ABK41026 standard; DNA; 21 BP.
XX
XX AC ABK41026;
XX
XX 21-MAY-2002 (first entry)
XX
XX Human obesity-associated biallelic marker upstream PCR primer #103.
XX
XX Human; obesity associated-biallelic marker; chromosome 10; obesity; ss;
XX
KW drug response; hyperuricaemia; digestive pathology; hypertension; cancer;
KW hepatic function disorder; cardiovascular disease; hyperlipidaemia; PCR;
KW insulin disorder; atheromatous disease; cardiac insufficiency; primer.
XX
XX Homo sapiens.
XX
XX WO200206525-A2.
XX
XX 24-JAN-2002.
XX
XX 28-JUN-2001; 2001WO-IB001477.
XX
XX 18-JUL-2000; 2000US-0219704P.
XX
XX (GEST ) GENSET.
XX
XX Cohen D, Blumenfeld M, Chumakov I, Abderrahim H, Bihain B;
XX
XX WPI; 2002-155043/20.
XX
XX Set of novel map-related biallelic markers, preferably located on obesity
XX disorder-associated chromosomal regions on chromosomes 3, 10 and 19,
XX useful, for e.g. detecting statistical correlations between marker allele
XX and a phenotype.
XX
XX Example 2; Page 248; 311pp; English.
XX
XX The invention relates to a set of novel map-related biallelic markers,
XX preferably located on obesity disorder-associated chromosomal regions on
XX chromosomes 3, 10 and 19. The markers are useful for genotyping or
XX estimating the frequency of an allele in a population, for detecting an
XX association between a genotype or haplotype and a phenotype, e.g. a
XX disease involving drug responses, obesity or disorders related to
XX obesity, such as hyperuricaemia, digestive pathology, hepatic function
XX disorders, cancer, cardiovascular disease, hypertension, hyperlipidaemia,
XX insulin disorders, atheromatous disease and cardiac insufficiency. The
XX markers are useful for detecting a statistical correlation between a
XX biallelic marker allele and a phenotype and/or between a biallelic marker
XX haplotype and a phenotype. This sequence represents a PCR primer used to
XX amplify a human obesity-associated biallelic marker
XX
XX Sequence 21 BP; 4 A; 4 C; 3 G; 10 T; 0 U; 0 Other;
XX
XX Query Match 55.5%; Score 12.2; DB 6; Length 21;
XX Best Local Similarity 82.4%; Pred. No. 3.8e+04;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 5 GTTACAGGTAGAAAAGC 21
XX 19 GTTTCAGATAAAAAGC 3
XX
XX
XX RESULT 34
XX ADH56236
XX ID ADH56236 standard; DNA; 22 BP.
XX
XX AC ADH56236;
XX
XX 25-MAR-2004 (first entry)
XX
XX Yeast YFL014W (HSP12) PCR primer HSP12-F SEQ ID NO:1.
XX
XX cold-inducible promoter activity; promoter; non-translational region;
KW Saccharomyces cerevisiae; yeast; vector; expression system;
KW RNA production regulation; molecular mechanism;
KW low-temperature inducibility; PCR; primer; ss.
XX
XX Synthetic.
XX
XX Saccharomyces cerevisiae.
XX
XX WO2004003197-A1.
XX
XX 08-JAN-2004.

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```
XX 13-MAY-2003; 2003WO-JP005956.
PF
PR 28-JUN-2002; 2002JP-00191383.
PR
XX (NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.
XX
XX Sahara T, Ohgiya S, Goda T, Kawasaki K;
XX
XX WPI; 2004-083056/08.
XX
XX Yeast-originated promoters with cold-inducible activity for constructing
PT vectors and expression systems to produce difficult-to-obtain proteins
PT and for regulating RNA production.
XX
XX Example 2; SEQ ID NO 1; 106pp; Japanese.
XX
XX The present invention describes a DNA fragment with a cold-inducible
XX promoter activity which occurs in the non-translational region in the 5'-
XX upstream side of a gene selected from the 259 specified Saccharomyces
XX cerevisiae genes given in the specification (G) e.g. YAL014C and YPR200C.
XX Also described: (1) a similar DNA fragment containing: (a) a DNA derived
XX from any of the specified DNA fragments (G) but with some bases deleted,
XX substituted or added; or (b) a DNA hybridisable with a DNA fragment
XX containing a base sequence complementary to any of the specified DNA
XX fragments (G); (2) a similar DNA fragment containing a cis sequence of
XX DNA sequence A: GCTCATCG, or a DNA sequence of B: GAGATGAG; (3) a DNA
XX fragment with cold-inducible promoter activity containing: (a) a DNA
XX derived from the DNA fragment in (2) but with some bases deleted,
XX substituted or added; or (b) a DNA hybridisable with a DNA fragment
XX containing a base sequence complementary to the DNA fragment in (2); (4)
XX an expression vector containing any of the DNA fragments; (5) a
XX transforming which is transformed with any of the expression vector; (6)
XX producing a protein by culturing the transformant at a low temperature;
XX and (7) controlling RNA production by culturing the transformant at a low
XX temperature. The promoters are applicable in constructing vectors and
XX expression systems to produce difficult-to-obtain proteins and for
XX regulating RNA production as well as in studying the molecular mechanism
XX of low-temperature inducibility. The present sequence represents a PCR
XX primer which is used in an example from the present invention.
XX
XX Sequence 22 BP; 8 A; 3 C; 7 G; 4 T; 0 U; 0 Other;
SQ
Query Match 55.5%; Score 12.2; DB 12; Length 22;
Best Local Similarity 82.4%; Pred. No. 3.8e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 4 TGTTACAGGTAGAAAAG 20
DB 6 TGACCGAGGTAGAAAAG 22
RESULT 35
AAZ75337/c
ID AAZ75337 standard; DNA; 20 BP.
XX
XX AAZ75337;
AC
XX 10-SEP-2001 (first entry)
DT
XX Human biallelic marker downstream amplification primer SEQ ID NO:9693.
DE
XX Human genome; biallelic marker; high density disequilibrium map;
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
KW haplotyping; hybridisation; identification; characterisation;
KW amplification; single nucleotide polymorphism; SNP; PCR primer;
XX diagnosis; ss.
XX
XX Homo sapiens.
OS
XX WO9954500-A2.
PN
XX 28-OCT-1999.
PD
XX 13-MAY-2003; 2003WO-JP005956.
PF
PR 28-JUN-2002; 2002JP-00191383.
PR
XX (NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.
XX
XX Sahara T, Ohgiya S, Goda T, Kawasaki K;
XX
XX WPI; 2004-083056/08.
XX
XX Yeast-originated promoters with cold-inducible activity for constructing
PT vectors and expression systems to produce difficult-to-obtain proteins
PT and for regulating RNA production.
XX
XX Example 2; SEQ ID NO 1; 106pp; Japanese.
XX
XX The present invention describes a DNA fragment with a cold-inducible
XX promoter activity which occurs in the non-translational region in the 5'-
XX upstream side of a gene selected from the 259 specified Saccharomyces
XX cerevisiae genes given in the specification (G) e.g. YAL014C and YPR200C.
XX Also described: (1) a similar DNA fragment containing: (a) a DNA derived
XX from any of the specified DNA fragments (G) but with some bases deleted,
XX substituted or added; or (b) a DNA hybridisable with a DNA fragment
XX containing a base sequence complementary to any of the specified DNA
XX fragments (G); (2) a similar DNA fragment containing a cis sequence of
XX DNA sequence A: GCTCATCG, or a DNA sequence of B: GAGATGAG; (3) a DNA
XX fragment with cold-inducible promoter activity containing: (a) a DNA
XX derived from the DNA fragment in (2) but with some bases deleted,
XX substituted or added; or (b) a DNA hybridisable with a DNA fragment
XX containing a base sequence complementary to the DNA fragment in (2); (4)
XX an expression vector containing any of the DNA fragments; (5) a
XX transforming which is transformed with any of the expression vector; (6)
XX producing a protein by culturing the transformant at a low temperature;
XX and (7) controlling RNA production by culturing the transformant at a low
XX temperature. The promoters are applicable in constructing vectors and
XX expression systems to produce difficult-to-obtain proteins and for
XX regulating RNA production as well as in studying the molecular mechanism
XX of low-temperature inducibility. The present sequence represents a PCR
XX primer which is used in an example from the present invention.
XX
XX Sequence 22 BP; 8 A; 3 C; 7 G; 4 T; 0 U; 0 Other;
SQ
Query Match 55.5%; Score 12.2; DB 12; Length 22;
Best Local Similarity 82.4%; Pred. No. 3.8e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 4 TGTTACAGGTAGAAAAG 20
DB 6 TGACCGAGGTAGAAAAG 22
RESULT 35
AAZ75337/c
ID AAZ75337 standard; DNA; 20 BP.
XX
XX AAZ75337;
AC
XX 10-SEP-2001 (first entry)
DT
XX Human biallelic marker downstream amplification primer SEQ ID NO:9693.
DE
XX Human genome; biallelic marker; high density disequilibrium map;
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
KW haplotyping; hybridisation; identification; characterisation;
KW amplification; single nucleotide polymorphism; SNP; PCR primer;
XX diagnosis; ss.
XX
XX Homo sapiens.
OS
XX WO9954500-A2.
PN
XX 28-OCT-1999.
PD
XX 21-APR-1999; 99WO-IB000822.
XX
XX 21-APR-1998; 98US-0082614P.
PR
XX 23-NOV-1998; 98US-0109732P.
PR
XX (GEST ) GENSET.
XX
XX Cohen D, Blumenfeld M, Chumakov I;
XX
XX WPI; 2000-013267/01.
XX
XX Novel biallelic markers used to construct a high density disequilibrium
PT map of the human genome.
PT
XX
XX Claim 8; Page 2297; 2745pp; English.
XX
XX AAZ65654 to AAZ69578 represent human biallelic markers from the present
XX invention, which contain a polymorphic base at position 24 of their
XX nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
XX primers for the biallelic markers. The biallelic markers of the invention
XX have a variety of uses: they can be used for high density mapping of the
XX human genome, and in complex association studies and haplotyping studies
XX which are useful in determining the genetic basis for disease states.
XX Compositions and methods of the invention can also be useful for the
XX identification of the targets for the development of pharmaceutical
XX agents and diagnostic methods, as well as the characterisation of the
XX differential efficacious responses to and side effects from
XX pharmaceutical agents acting on a disease as well as other treatment.
XX N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
XX 3367, are not actually given a sequence in the Sequence Listing from the
XX present invention
XX
XX Sequence 20 BP; 6 A; 6 C; 1 G; 7 T; 0 U; 0 Other;
SQ
Query Match 54.5%; Score 12; DB 3; Length 20;
Best Local Similarity 75.0%; Pred. No. 4.7e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GCATGTTACAGGTAGAAAAG 20
DB 20 GTATGCTCGAGGTATAAAAG 1
RESULT 36
ABK87660/c
ID ABK87660 standard; DNA; 20 BP.
XX
XX ABK87660;
AC
XX 24-SEP-2002 (first entry)
DT
XX Synthetic oligo #15, for selective randomisation of zinc finger protein.
DE
XX Selectively randomised synthetic oligonucleotide; NNN randomisation;
XX resin-splitting; zinc finger; ss.
KW
XX Synthetic.
XX
XX WO200222634-A1.
XX
XX 21-MAR-2002.
XX
XX 12-SEP-2001; 2001WO-GB004084.
XX
XX 12-SEP-2000; 2000GB-00022330.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Choo Y, Isalan M;
XX
XX WPI; 2002-507792/54.
XX
```

PT Making selectively randomized synthetic oligonucleotide by utilizing  
PT phosphoramidite dinucleotide and mononucleotide synthesis strategy, where  
PT a deprotecting step is performed after each coupling step.

PS Example 3; Fig 1B; 42pp; English.

The present invention relates to a new method of making selectively randomised synthetic oligonucleotides. The method involves deprotecting starting material at 3' position, which is coupled to support in nucleic acid synthesiser, coupling dinucleotide phosphoramidite to 3' position, deprotecting the new 3' position of extended oligonucleotide, coupling mononucleotide phosphoramidite to the 3' position and repeating coupling steps until desired length oligonucleotide is obtained. The method of the invention is useful for making selectively randomised synthetic oligonucleotides. Unlike prior art techniques, the method provides randomised oligonucleotides without the problems of NNN randomisation, without having to resort to complicated resin-splitting procedures or the use of low coupling efficiency trinucleotide phosphoramidites. The present nucleic acid sequence represents one of a collection (ABK87646-ABK87669 and ABK87671-ABK87676) of synthetic oligonucleotides that were used in the invention for selective randomisation of zinc finger protein Sequence 20 BP; 1 A; 6 C; 3 G; 6 T; 0 U; 4 Other;

|    |   |
|----|---|
| XX | 01-JUL-2003; 2003WO-US020865.   |
| XX |   |
| XX | 01-JUL-2002; 2002US-0392813P.   |
| XX |   |
| PA | (PHAA ) PHARMACIA CORP.   |
| XX |   |
| PI | Kane CD;  |
| XX |   |
| DR | WPI; 2004-083058/08.  |
| XX |   |
| XX | New antisense oligonucleotides targeted to a nucleic acid encoding liver  |
| PT | related homologue-1 (LRH1), useful for treating breast cancer,            |
| PT | dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.        |
| XX |   |
| XX | Example 15; SEQ ID NO 2166; 909pp; English.                               |
| PS |   |
| XX |   |
| CC | This invention relates to novel antisense compounds useful for modulating |
| CC | the expression of liver related homologue-1 (LRH1) and splice variants    |
| CC | thereof. Specifically, it refers to compositions 8-30 nucleobases in      |
| CC | length that target a portion of an active site on the nucleic acid        |
| CC | molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan  |
| CC | nuclear receptor protein that functions as a tissue specific              |
| CC | transcription factor. The present invention describes antisense           |
| CC | oligonucleotides that comprise at least one modified internucleoside      |
| CC | linkage, a phosphorothioate linkage; at least one modified sugar moiety,  |
| CC | a 2'-O-methoxyethyl (2' MOE) and at least one modified nucleobase, a 5-   |
| CC | methylcytidine. These antisense compounds are useful for treating or      |
| CC | diagnosing a disease associated with LRH1, such as breast cancer,         |
| CC | dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high  |
| CC | LDL (low density lipoprotein), hypercholesterolaemia, gall stones,        |
| CC | triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic    |
| CC | hepatitis, as well as hepatocellular carcinoma or a condition associated  |
| CC | with aromatase activity. Accordingly, these compositions exhibit          |
| CC | cytostatic, antilipaeamic, antiarteriosclerotic, anorectic, hepatotropic, |
| CC | litholytic, antiinflammatory and virucidal activities. This               |
| CC | oligonucleotide sequence is an antisense DNA oligo used to modulate the   |
| CC | expression of the human LRH1 protein of the invention.                    |
| XX |   |
| SO | Sequence 20 BP: 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;                         |

PN WO2004016224-A2.  
XX  
PD 26-FEB-2004.  
XX  
PP 19-AUG-2003; 2003WO-US025891.  
XX  
PR 19-AUG-2002; 2002US-040484P.  
XX  
XX (PHAA ) PHARMACIA CORP.  
PA  
XX Weinstein EJ;  
PI  
XX WPI; 2004-192065/18.  
XX  
XX New antisense compounds targeted to a nucleic acid molecule encoding  
PT vascular endothelial growth factor co-regulated chemokine-1 (VCC-1),  
PT useful for treating VCC-1-associated disorders, e.g. diabetes or a  
PT neurologic disorder.  
XX  
XX Claim 4; SEQ ID NO 620; 336pp; English.  
PS  
XX The invention relates to an antisense compound targeted to a nucleic acid  
CC molecule encoding human vascular endothelial growth factor (VEGF) co-  
CC regulated chemokine-1 (VCC-1), and which specifically hybridizes with and  
CC inhibits the expression of VCC-1. The invention also relates to a  
CC composition comprising the antisense compound, a method of inhibiting the  
CC expression of VCC-1 in cells or tissues comprising contacting the cells  
CC or tissues with the antisense compound and a method of treating a human  
CC having a disease or condition associated with VCC-1 comprising  
CC administering the antisense compound to an animal to inhibit expression  
CC of VCC-1. The antisense oligonucleotide comprises at least one modified  
CC internucleoside linkage, preferably a phosphorothioate linkage. It also  
CC comprises at least one modified sugar moiety, preferably a 2'-O-  
CC methoxyethyl sugar moiety, and at least one modified nucleobase,  
CC specifically a 5-methylcytosine. The antisense oligonucleotide preferably  
CC is a chimeric oligonucleotide. The antisense compound is useful for  
CC treating a disease or condition associated with VCC-1, such as diabetes,  
CC an immunological disorder, a cardiovascular disorder, a neurological  
CC disorder, ischaemia, reperfusion injury, cancer or an angiogenic  
CC disorder, e.g. haemangioma, tumour angiogenesis, rheumatoid arthritis,  
CC atherosclerosis, psoriasis or fibrosis after myocardial infarction. VCC-1  
CC antisense oligonucleotides may also be used for wound healing, for  
CC healing of bone fractures and cartilage damage, for regeneration of  
CC tissues or organs, for treating periodontal diseases, for gut protection  
CC or regeneration, for treatment of lung or liver fibrosis or for  
CC management of atrial fibrillation. This sequence represents an antisense  
CC oligonucleotide targeted to DNA encoding the human VCC-1 polypeptide of  
XX the invention.  
XX  
SQ Sequence 20 BP; 6 A; 4 C; 3 G; 7 T; 0 U; 0 Other;  
Query Match 54.5%; Score 12; DB 12; Length 20;  
Best Local Similarity 75.0%; Pred. No. 4.7e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 3 ATGTTACAGGTAGAAAGCC 22  
||| ||||| |||||  
DB 1 ATCTTTCAGGTAATTAAGCC 20  
||| ||||| |||||  
RESULT 39  
AAH62090/c  
ID AAH62090 standard; DNA; 21 BP.  
XX  
XX AAH62090;  
XX  
XX 10-SEP-2001 (first entry)  
XX  
XX VEGF hammerhead ribozyme recognition site SEQ ID NO:4514.  
DE  
XX Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
KW recognition site; target; ribozyme binding site; eye disease; vulnary;  
KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
XX

KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;  
KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;  
KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
KW sickle cell retinopathy; ss.  
XX  
XX Homo sapiens.  
OS Synthetic.  
XX  
XX WO200130362-A2.  
PN  
XX  
PD 03-MAY-2001.  
XX  
XX 26-OCT-2000; 2000WO-US029500.  
PP  
XX 26-OCT-1999; 99US-0161532P.  
PR  
XX (IMMU-) IMMUSOL INC.  
PA  
XX Robbins JM, Tritz R;  
PI  
XX WPI; 2001-300427/31.  
DR  
XX  
XX Treating proliferative skin or eye diseases and scarring, using ribozymes  
PT that cleave RNA encoding cytokines involved in inflammation, matrix  
PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
XX  
XX Example 1; Page 26; 408pp; English.  
XX  
XX The present invention describes a method for treating a proliferative  
CC skin or eye disease and scarring. The method involves administering a  
CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
CC dependent kinase, growth factor or a reductase, or administering a  
CC nucleic acid molecule (II) comprising a promoter operably linked to a  
CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling,  
CC ophthalmological, vulnary, keratolytic and virucide activities, and  
CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
CC also be used for treating proliferative eye diseases such as diabetic  
CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
CC prematurity and retinal detachment, and for treating and preventing  
CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
CC scar. AAH57577 to AAH62099 represent sequences used in the  
CC exemplification of the present invention  
XX  
SQ Sequence 21 BP; 3 A; 9 C; 3 G; 6 T; 0 U; 0 Other;  
Query Match 54.5%; Score 12; DB 5; Length 21;  
Best Local Similarity 75.0%; Pred. No. 4.8e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 2 CATGTTACAGGTAGAAAGC 21  
||| ||||| |||||  
DB 21 CATGGTGGAGGTAGAGCAGC 2  
||| ||||| |||||  
RESULT 40  
AD016516  
ID AD016516 standard; DNA; 22 BP.  
XX  
XX AC AD016516;  
XX  
XX 29-JUL-2004 (first entry)  
DT  
XX  
XX 4 synthesis-period of neuroblastoma related primer, SEQ ID 778.  
DE  
XX Human; 4 synthesis-period; neuroblastoma; stage 4S; primer; ss.  
KW

```

XX Synthetic.
OS WO2004039975-A1.
XX 13-MAY-2004.
XX 30-OCT-2003; 2003WO-JP013932.
XX 30-OCT-2002; 2002JP-00316586.
XX (HISM) HISAMITSU PHARM CO LTD.
XX (CHIB-) CHIBA PREFECTURE.
XX Nakagawara A, Ohira M;
XX WPI; 2004-390323/36.
XX Novel nucleic acid obtained from 4 synthesis-period of neuroblastoma
XX cells useful for prognosing and determining progress stage of
XX neuroblastomas.
XX Claim 8; SEQ ID NO 778; 455pp; Japanese.
XX The present invention relates to human nucleic acid sequences (I;
XX AD015739-AD015912) obtained from 4 synthesis-period (stage 4S) of
XX neuroblastoma cell. (I) is useful for prognosing and determining the
XX progress stage of 4 synthesis-period of neuroblastoma. The present
XX sequence is a primer, used to illustrate the invention.
XX Sequence 22 BP; 10 A; 6 C; 4 G; 2 T; 0 U; 0 Other;
SQ
Query Match 54.5%; Score 12; DB 12; Length 22;
Best Local Similarity 100.0%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 7 TACAGGTAGAAA 18
Db 1 TACAGGTAGAAA 12

```

Search completed: August 12, 2005, 08:58:58  
Job time : 245 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 08:29:02 ; Search time 95 Seconds  
(without alignments)  
378.927 Million cell updates/sec

Title: US-09-743-825-7

Perfect score: 22

Sequence: 1 gcatttcacaggtagaagcc 22

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 487750

Minimum DB seq length: 0

Maximum DB seq length: 22

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Issued Patents NA.\*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description         |
|------------|-------|-------------|--------|----|---------------------|
| C 1        | 15.2  | 69.1        | 20     | 4  | US-09-198-452A-5333 |
| C 2        | 13.2  | 60.0        | 21     | 4  | US-09-689-065B-50   |
| C 3        | 12.8  | 58.2        | 19     | 3  | US-09-564-805-157   |
| C 4        | 12.2  | 55.5        | 18     | 3  | US-08-840-316-53    |
| C 5        | 12.2  | 55.5        | 18     | 3  | US-08-809-523-53    |
| C 6        | 12.2  | 55.5        | 18     | 3  | US-08-471-971-53    |
| C 7        | 12.2  | 55.5        | 18     | 3  | US-09-402-978-53    |
| C 8        | 12.2  | 55.5        | 18     | 4  | US-09-422-978-4779  |
| C 9        | 12.2  | 55.5        | 18     | 4  | US-08-470-246-53    |
| C 10       | 12.2  | 55.5        | 18     | 4  | US-08-316-765-53    |
| C 11       | 12.2  | 55.5        | 18     | 4  | US-09-724-475-53    |
| C 12       | 12.2  | 55.5        | 18     | 5  | PCT-US93-08849A-53  |
| C 13       | 12.2  | 55.5        | 18     | 5  | PCT-US93-08849-53   |
| C 14       | 12.2  | 55.5        | 20     | 3  | US-09-703-251-44    |
| C 15       | 12.2  | 54.5        | 20     | 3  | US-08-765-340-23    |
| C 16       | 12.2  | 54.5        | 20     | 4  | US-09-422-978-9693  |
| C 17       | 12.2  | 54.5        | 21     | 4  | US-09-696-791-4514  |
| C 18       | 11.8  | 53.6        | 19     | 4  | US-09-422-978-6072  |
| C 19       | 11.8  | 53.6        | 20     | 1  | US-08-477-270-27    |
| C 20       | 11.8  | 53.6        | 20     | 3  | US-09-487-445-98    |
| C 21       | 11.6  | 52.7        | 19     | 4  | US-09-648-520B-29   |
| C 22       | 11.6  | 52.7        | 19     | 4  | US-09-422-978-4544  |
| C 23       | 11.4  | 51.8        | 17     | 3  | US-08-985-162-702   |
| C 24       | 11.4  | 51.8        | 17     | 3  | US-08-985-162-703   |
| C 25       | 11.4  | 51.8        | 17     | 3  | US-08-985-162-704   |
| C 26       | 11.4  | 51.8        | 17     | 3  | US-08-985-162-705   |
| C 27       | 11.4  | 51.8        | 17     | 3  | US-08-584-040-1534  |
| C 28       | 11.4  | 51.8        | 17     | 4  | US-09-371-772B-79   |
| C 29       | 11.4  | 51.8        | 17     | 4  | US-09-371-772B-4284 |
| C 30       | 11.4  | 51.8        | 17     | 4  | US-09-401-063-702   |
| C 31       | 11.4  | 51.8        | 17     | 4  | US-09-401-063-703   |
| C 32       | 11.4  | 51.8        | 17     | 4  | US-09-401-063-704   |
| C 33       | 11.4  | 51.8        | 17     | 4  | US-09-401-063-705   |
| C 34       | 11.4  | 51.8        | 17     | 4  | US-09-685-664B-79   |
| C 35       | 11.4  | 51.8        | 18     | 3  | US-08-981-988A-27   |
| C 36       | 11.4  | 51.8        | 19     | 3  | US-09-531-000-7     |
| C 37       | 11.4  | 51.8        | 19     | 3  | US-09-531-000-34    |
| C 38       | 11.4  | 51.8        | 19     | 3  | US-09-531-000-38    |
| C 39       | 11.4  | 51.8        | 19     | 4  | US-09-422-978-6684  |
| C 40       | 11.4  | 51.8        | 20     | 3  | US-08-882-046-89    |
| C 41       | 11.4  | 51.8        | 20     | 3  | US-09-716-161A-85   |
| C 42       | 11.4  | 51.8        | 20     | 4  | US-09-198-452A-3425 |
| C 43       | 11.4  | 51.8        | 20     | 4  | US-09-843-376-44    |
| C 44       | 11.4  | 51.8        | 20     | 4  | US-09-555-554-13    |
| C 45       | 11.4  | 51.8        | 20     | 4  | US-09-112-580-230   |
| C 46       | 11.4  | 51.8        | 20     | 4  | US-09-566-047-89    |
| C 47       | 11.4  | 51.8        | 20     | 4  | US-09-953-318-28    |
| C 48       | 11.4  | 51.8        | 21     | 3  | US-08-936-107A-26   |
| C 49       | 11.4  | 51.8        | 21     | 4  | US-09-422-978-6627  |
| C 50       | 11.4  | 51.8        | 22     | 4  | US-09-548-130-9     |
| C 51       | 11.4  | 51.8        | 22     | 4  | US-10-119-466-6     |
| C 52       | 11.2  | 50.9        | 18     | 1  | US-08-434-255-20    |
| C 53       | 11.2  | 50.9        | 18     | 1  | US-08-459-967-20    |
| C 54       | 11.2  | 50.9        | 18     | 1  | US-08-460-327-20    |
| C 55       | 11.2  | 50.9        | 18     | 1  | US-08-459-871-20    |
| C 56       | 11.2  | 50.9        | 20     | 1  | US-08-240-012-9     |
| C 57       | 11.2  | 50.9        | 20     | 3  | US-08-896-162A-9    |
| C 58       | 11.2  | 50.9        | 20     | 4  | US-09-983-605-261   |
| C 59       | 11.2  | 50.9        | 20     | 4  | US-09-269-446D-107  |
| C 60       | 11.2  | 50.9        | 21     | 4  | US-09-422-978-11567 |
| C 61       | 11.2  | 50.9        | 22     | 1  | US-08-446-918A-9    |
| C 62       | 11.2  | 50.9        | 22     | 2  | US-08-580-806-9     |
| C 63       | 11.2  | 50.9        | 22     | 3  | US-08-188-275A-11   |
| C 64       | 11.2  | 50.9        | 19     | 1  | US-07-768-437-14    |
| C 65       | 11.2  | 50.9        | 19     | 1  | US-07-768-437-15    |
| C 66       | 11.2  | 50.9        | 20     | 3  | US-09-513-729B-26   |
| C 67       | 11.2  | 50.9        | 20     | 3  | US-09-382-616A-38   |
| C 68       | 11.2  | 50.9        | 20     | 3  | US-09-484-617-80    |
| C 69       | 11.2  | 50.9        | 20     | 3  | US-09-563-826-7     |
| C 70       | 11.2  | 50.9        | 20     | 3  | US-09-580-189-3     |
| C 71       | 11.2  | 50.9        | 20     | 4  | US-09-305-856B-23   |
| C 72       | 11.2  | 50.9        | 20     | 4  | US-09-728-466-38    |
| C 73       | 11.2  | 50.9        | 20     | 4  | US-09-533-149-7     |
| C 74       | 11.2  | 50.9        | 21     | 1  | US-08-136-741-5     |
| C 75       | 11.2  | 50.9        | 21     | 3  | US-08-840-316-12    |
| C 76       | 11.2  | 50.9        | 21     | 3  | US-08-809-523-12    |
| C 77       | 11.2  | 50.9        | 21     | 3  | US-08-471-971-12    |
| C 78       | 11.2  | 50.9        | 21     | 3  | US-09-402-776-12    |
| C 79       | 11.2  | 50.9        | 21     | 4  | US-09-422-978-10032 |
| C 80       | 11.2  | 50.9        | 21     | 4  | US-08-470-246-12    |
| C 81       | 11.2  | 50.9        | 21     | 4  | US-08-316-765-12    |
| C 82       | 11.2  | 50.9        | 21     | 4  | US-09-724-475-12    |
| C 83       | 11.2  | 50.9        | 21     | 5  | PCT-US93-08849A-12  |
| C 84       | 11.2  | 50.9        | 21     | 5  | PCT-US93-08849-12   |
| C 85       | 11.2  | 50.9        | 22     | 3  | US-08-545-196B-30   |
| C 86       | 11.2  | 50.9        | 20     | 1  | US-08-245-386A-12   |
| C 87       | 11.2  | 50.9        | 20     | 3  | US-08-844-634-160   |
| C 88       | 11.2  | 50.9        | 20     | 4  | US-09-422-978-6306  |
| C 89       | 11.2  | 50.9        | 20     | 4  | US-09-975-327A-12   |
| C 90       | 11.2  | 50.9        | 20     | 4  | US-10-027-983-91    |
| C 91       | 11.2  | 50.9        | 20     | 4  | US-10-029-517-85    |
| C 92       | 11.2  | 50.9        | 20     | 4  | US-10-215-448-78    |
| C 93       | 11.2  | 50.9        | 22     | 1  | PCT-US95-06160-12   |
| C 94       | 11.2  | 50.9        | 22     | 1  | US-08-394-210-5     |
| C 95       | 11.2  | 50.9        | 18     | 3  | US-09-106-038A-50   |
| C 96       | 11.2  | 50.9        | 18     | 3  | US-09-338-907-414   |
| C 97       | 11.2  | 50.9        | 18     | 3  | US-09-218-207-414   |
| C 98       | 11.2  | 50.9        | 18     | 4  | US-09-422-978-8311  |
| C 99       | 11.2  | 50.9        | 19     | 4  | US-09-422-978-9517  |
| C 100      | 11.2  | 50.9        | 19     | 4  | US-09-696-791-1775  |

Sequence 79, Appl  
Sequence 4284, Ap  
Sequence 702, App  
Sequence 703, App  
Sequence 704, App  
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Sequence 230, Appl  
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Sequence 6627, Ap  
Sequence 9, Appl  
Sequence 6, Appl  
Sequence 20, Appl  
Sequence 20, Appl  
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Sequence 9, Appl  
Sequence 261, App  
Sequence 107, App  
Sequence 11567, A  
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Sequence 9, Appl  
Sequence 11, Appl  
Sequence 14, Appl  
Sequence 15, Appl  
Sequence 26, Appl  
Sequence 38, Appl  
Sequence 80, Appl  
Sequence 7, Appl  
Sequence 3, Appl  
Sequence 23, Appl  
Sequence 38, Appl  
Sequence 7, Appl  
Sequence 5, Appl  
Sequence 12, Appl  
Sequence 12, Appl  
Sequence 12, Appl  
Sequence 10032, A  
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Sequence 12, Appl  
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Sequence 12, Appl  
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Sequence 12, Appl  
Sequence 160, App  
Sequence 6306, Ap  
Sequence 12, Appl  
Sequence 91, Appl  
Sequence 85, Appl  
Sequence 78, Appl  
Sequence 12, Appl  
Sequence 5, Appl  
Sequence 50, Appl  
Sequence 414, App  
Sequence 414, App  
Sequence 8311, Ap  
Sequence 9517, Ap  
Sequence 1775, Ap

## ALIGNMENTS

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RESULT 1
US-09-198-452A-5333/c
; Sequence 5333, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffaig, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 5333
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-5333

Query Match      69.1%; Score 15.2; DB 4; Length 20;
Best Local Similarity 85.0%; Pred. No. 3.2e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 GCATGTTACAGGTAGAAAAG 20
Db      20 GCCTGTTCCAGTAGAAAAG 1

RESULT 2
US-09-689-065B-50
; Sequence 50, Application US/09689065B
; Patent No. 6605696
; GENERAL INFORMATION:
; APPLICANT: Pfizer Products, Inc.
; TITLE OF INVENTION: LAWSONIA INTRACELLULARIS PROTEINS AND RELATED METHODS AND MATERIALS
; FILE REFERENCE: 3153.00187/PC10589A
; CURRENT APPLICATION NUMBER: US/09/689,065B
; CURRENT FILING DATE: 2000-10-12
; PRIOR APPLICATION NUMBER: US Prov. 60/160,922
; PRIOR FILING DATE: 1999-10-22
; PRIOR APPLICATION NUMBER: US Prov. 60/163,858
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 50
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Lawsonia intracellularis
US-09-689-065B-50

Query Match      60.0%; Score 13.2; DB 4; Length 21;
Best Local Similarity 83.3%; Pred. No. 3.1e+03;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      4 TGTTCAGGTAGAAAAGC 21
Db      2 TGTTCAGCAAGAAAAGC 19

RESULT 3
US-09-564-805-157/c
; Sequence 157, Application US/09564805
; Patent No. 6333403
; GENERAL INFORMATION:
; APPLICANT: Tavtigian, Sean V.
; APPLICANT: Teng, David H.F.
; APPLICANT: Simard, Jacques
US-09-564-805-157/c
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; APPLICANT: Rommens, Johanna M.
; APPLICANT: Myriad Genetics, Inc.
; TITLE OF INVENTION: Chromosome 17p-Linked Prostate Cancer Susceptibility
; FILE REFERENCE: 2318-258
; CURRENT APPLICATION NUMBER: US/09/564,805
; CURRENT FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: US 60/107,468
; PRIOR FILING DATE: 1998-11-06
; PRIOR APPLICATION NUMBER: 09/434,382
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 157
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-564-805-157

Query Match      58.2%; Score 12.8; DB 3; Length 19;
Best Local Similarity 87.5%; Pred. No. 4.8e+03;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      3 ATGTTACAGGTAGAAA 18
Db      19 ATGTCACAGGCAGAAA 4

RESULT 4
US-08-840-316-53
; Sequence 53, Application US/08840316
; Patent No. 6054567
; GENERAL INFORMATION:
; APPLICANT: Emerson, Suzanne U., Purcell, Robert H.,
; APPLICANT: Tsarev, Sergei. A., and Robinson, Robin A.
; TITLE OF INVENTION: Recombinant Proteins Of
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/840,316
; FILING DATE: 11-APR-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard W. Bork
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4255
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-840-316-53
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Query Match 55.5%; Score 12.2; DB 3; Length 18;  
Best Local Similarity 82.4%; Pred. No. 9.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
||||| |||||  
Db 2 GTTACAGCCAGAAAACC 18

RESULT 5  
US-08-809-523-53  
; Sequence 53, Application US/0809523  
; Patent No. 6207416  
; GENERAL INFORMATION:  
; APPLICANT: Tsarev, Sergei. A., Emerson,  
; APPLICANT: Suzanne U., Purcell, Robert H.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 107  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN, L.L.P.  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/809,523  
; FILING DATE: 28-MAY-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/13102  
; FILING DATE: 03-OCT-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US08/316,765  
; FILING DATE: 03-OCT-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/947,263  
; FILING DATE: 18-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Richard W. Bork  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4032US4  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 751-6849  
; TELEFAX: (212) 758-4800  
; INFORMATION FOR SEQ ID NO: 53:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-08-809-523-53  
Query Match 55.5%; Score 12.2; DB 3; Length 18;  
Best Local Similarity 82.4%; Pred. No. 9.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
||||| |||||  
Db 2 GTTACAGCCAGAAAACC 18

RESULT 6  
US-08-471-971-53  
; Sequence 53, Application US/08471971  
; Patent No. 6287759  
; GENERAL INFORMATION:  
; APPLICANT: Emerson, Suzanne U., Purcell, Robert H.,  
; APPLICANT: Tsarev, Sergei. A., and Robinson, Robin A.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/809,523  
; FILING DATE: 28-MAY-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/13102  
; FILING DATE: 03-OCT-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US08/316,765  
; FILING DATE: 03-OCT-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/947,263  
; FILING DATE: 18-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Richard W. Bork  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4032US4  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 751-6849  
; TELEFAX: (212) 758-4800  
; INFORMATION FOR SEQ ID NO: 53:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

Query Match 55.5%; Score 12.2; DB 3; Length 18;  
Best Local Similarity 82.4%; Pred. No. 9.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
||||| |||||  
Db 2 GTTACAGCCAGAAAACC 18

RESULT 7  
US-09-402-776-53  
; Sequence 53, Application US/09402776  
; Patent No. 6458562  
; GENERAL INFORMATION:  
; APPLICANT: Emerson, Suzanne U., Purcell, Robert H.,  
; APPLICANT: Tsarev, Sergei. A., and Robinson, Robin A.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154

GENERAL INFORMATION:  
; APPLICANT: Tsarev, Sergei. A., Emerson,  
; APPLICANT: Suzanne U., Purcell, Robert H.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 107  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/471,971  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US08/316,765  
; FILING DATE: 03-OCT-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US07/947,263  
; FILING DATE: 18-SEP-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Richard W. Bork  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4032US2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 751-6849  
; TELEFAX: (212) 751-6849  
; INFORMATION FOR SEQ ID NO: 53:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-08-471-971-53  
Query Match 55.5%; Score 12.2; DB 3; Length 18;  
Best Local Similarity 82.4%; Pred. No. 9.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
||||| |||||  
Db 2 GTTACAGCCAGAAAACC 18

RESULT 7  
US-09-402-776-53  
; Sequence 53, Application US/09402776  
; Patent No. 6458562  
; GENERAL INFORMATION:  
; APPLICANT: Emerson, Suzanne U., Purcell, Robert H.,  
; APPLICANT: Tsarev, Sergei. A., and Robinson, Robin A.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/471,971  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US08/316,765  
; FILING DATE: 03-OCT-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US07/947,263  
; FILING DATE: 18-SEP-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Richard W. Bork  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4032US2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 751-6849  
; TELEFAX: (212) 751-6849  
; INFORMATION FOR SEQ ID NO: 53:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-08-471-971-53  
Query Match 55.5%; Score 12.2; DB 3; Length 18;  
Best Local Similarity 82.4%; Pred. No. 9.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
||||| |||||  
Db 2 GTTACAGCCAGAAAACC 18

RESULT 7  
US-09-402-776-53  
; Sequence 53, Application US/09402776  
; Patent No. 6458562  
; GENERAL INFORMATION:  
; APPLICANT: Emerson, Suzanne U., Purcell, Robert H.,  
; APPLICANT: Tsarev, Sergei. A., and Robinson, Robin A.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/402,776
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/840,316
; FILING DATE: 11-APR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard W. Bork
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4255
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-402-776-53
;
Query Match 55.5%; Score 12.2; DB 3; Length 18;
Best Local Similarity 82.4%; Pred. No. 9.3e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
Db 2 GTTACAGCCAGAAAACC 18

RESULT 8
US-09-422-978-4779
; Sequence 4779, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Ballelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CPI
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 4779
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..18
; OTHER INFORMATION: upstream amplification primer 99-17762 for SEQ 845,
US-09-422-978-4779
;
Query Match 55.5%; Score 12.2; DB 4; Length 18;
Best Local Similarity 82.4%; Pred. No. 9.3e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTGAGAGGTAGAAAAG 20
Db 1 TGTGAGAGGTAGAGAAG 17

```

```

RESULT 9
US-08-470-246-53
; Sequence 53, Application US/08470246
; Patent No. 6696242
; GENERAL INFORMATION:
; APPLICANT: Tsarev, Sergei. A.; Emerson, H.
; APPLICANT: Suzanne U., Purcell, Robert H.
; TITLE OF INVENTION: Recombinant Proteins Of
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,246
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US08/316,765
; FILING DATE: 03-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US07/947,263
; FILING DATE: 18-SEP-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard W. Bork
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4032US3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-470-246-53
;
Query Match 55.5%; Score 12.2; DB 4; Length 18;
Best Local Similarity 82.4%; Pred. No. 9.3e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
Db 2 GTTACAGCCAGAAAACC 18

RESULT 10
US-08-316-765-53
; Sequence 53, Application US/08316765
; Patent No. 6706873
; GENERAL INFORMATION:
; APPLICANT: Tsarev, Sergei. A.; Emerson,
; APPLICANT: Suzanne U., Purcell, Robert H.
; TITLE OF INVENTION: Recombinant Proteins Of
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN

```

```
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA: 08/316,765
; APPLICATION NUMBER: US/08/316,765
; FILING DATE: 03-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US07/947,263
; FILING DATE: 18-SEP-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard W. Bork
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4032US1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-316-765-53
;
; Query Match 55.5%; Score 12.2; DB 4; Length 18;
; Best Local Similarity 82.4%; Pred. No. 9.3e+03;
; Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
;
; Qy 5 GTTACAGGTAGAAAGC 21
; Db 2 GTTACAGCCAGAAACC 18
;
; RESULT 11
; US-09-724-475-53
; Sequence 53, Application US/09724475
; Patent No. 6787145
; GENERAL INFORMATION:
; APPLICANT: Tsarev, Sergei. A.; Emerson,
; Suzanne U.; Purcell, Robert H.
; TITLE OF INVENTION: Recombinant Proteins Of
; A Pakistani Strain Of Hepatitis E And Their
; Use In Diagnostic Methods And Vaccines
;
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/724,475
; FILING DATE: 28-NO. 6787145-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/809,523
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US08/316,765
; FILING DATE: 03-OCT-1994
;
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 08/316,765
; FILING DATE: 03-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US07/947,263
; FILING DATE: 18-SEP-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard W. Bork
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4032US4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-724-475-53
;
; Query Match 55.5%; Score 12.2; DB 4; Length 18;
; Best Local Similarity 82.4%; Pred. No. 9.3e+03;
; Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
;
; Qy 5 GTTACAGGTAGAAAGC 21
; Db 2 GTTACAGCCAGAAACC 18
;
; RESULT 12
; PCT-US93-08849A-53
; Sequence 53, Application PC/TUS9308849A
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Recombinant Proteins Of
; A Pakistani Strain Of Hepatitis E And Their
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines
; NUMBER OF SEQUENCES: 98
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/08849A
; FILING DATE: 17-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US07/947,263
; FILING DATE: 18-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: William S. Feiler
; REGISTRATION NUMBER: 26,728
; REFERENCE/DOCKET NUMBER: 2026-4032 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PCT-US93-08849A-53
;
; Query Match 55.5%; Score 12.2; DB 5; Length 18;
; Best Local Similarity 82.4%; Pred. No. 9.3e+03;
; Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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Qy 5 GTTACAGGTAGAAAAGC 21  
Db 2 GTTACAGCCAGAAAAC 18

## RESULT 13

PCT-US93-08849-53  
; Sequence 53, Application PC/TUS9308849  
; GENERAL INFORMATION:  
; APPLICANT: Tsarev, Sergei A., Emerson,  
; APPLICANT: Suzanne U., Purcell, Robert H.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 98  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/08849  
; FILING DATE: 17-SEP-1993  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/947,263  
; FILING DATE: 18-SEP-1992  
; NAME:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bork, Richard, W.  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4032  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; INFORMATION FOR SEQ ID NO: 53:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
PCT-US93-08849-53

Query Match 55.5%; Score 12.2; DB 5; Length 18;  
Best Local Similarity 82.4%; Pred. No. 9.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
Db 2 GTTACAGCCAGAAAAC 18

## RESULT 14

US-09-702-251-44/C  
; Sequence 44, Application US/09702251  
; Patent No. 6372492  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Lex M. Cowsett  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TALIN EXPRESSION  
; FILE REFERENCE: RTS-0199  
; CURRENT APPLICATION NUMBER: US/09/702,251  
; CURRENT FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 89  
; SEQ ID NO 44  
; LENGTH: 20

; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-702-251-44

Query Match 55.5%; Score 12.2; DB 3; Length 20;  
Best Local Similarity 82.4%; Pred. No. 9.5e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTTCAGGTAGAAAAG 20  
Db 19 TGTTCAGGCAGCAAG 3

## RESULT 15

US-08-765-340-23  
; Sequence 23, Application US/08765340  
; Patent No. 6150092  
; GENERAL INFORMATION:  
; APPLICANT: UCHIDA, K.,  
; APPLICANT: UCHIDA, T.,  
; APPLICANT: TANAKA, Y.,  
; APPLICANT: MATSUDA, Y.,  
; APPLICANT: KONDO, S.,  
; TITLE OF INVENTION: AN ANTISENSE NUCLEIC ACID  
; TITLE OF INVENTION: COMPOUND  
; NUMBER OF SEQUENCES: 185  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN, L.L.P.  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version  
; SOFTWARE: #1.30 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/765,340  
; FILING DATE: 23-DEC-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 145146/94  
; FILING DATE: 27-JUN-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 311130/94  
; FILING DATE: 21-NOV-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: SERUNIAN, LESLIE  
; REGISTRATION NUMBER: 35,353  
; REFERENCE/DOCKET NUMBER: 1452-4005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "synthetic DNA"  
US-08-765-340-23

Query Match 54.5%; Score 12; DB 3; Length 20;  
Best Local Similarity 75.0%; Pred. No. 1.2e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAAAAG 20  
||||| ||||| ||

Db 1 GCATGGTGGAGGTAGAGCAG 20

## RESULT 16

US-09-422-978-9693/c  
; Sequence 9693, Application US/09422978  
; Patent No. 6537751

## GENERAL INFORMATION:

; APPLICANT: Cohen, Daniel  
; APPLICANT: Blumenfeld, Marta  
; TITLE OF INVENTION: Blallelic markers for use in constructing a high density...  
; FILE REFERENCE: GENSET.020C91  
; CURRENT FILING DATE: 1999-10-20  
; EARLIER APPLICATION NUMBER: US 09/422,978  
; EARLIER FILING DATE: 1999-04-21  
; EARLIER APPLICATION NUMBER: US 60/109,732  
; EARLIER FILING DATE: 1998-11-23  
; EARLIER APPLICATION NUMBER: US 60/082,614  
; EARLIER FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 11796  
; SEQ ID NO 9693  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: primer\_bind  
; LOCATION: 1..20  
; OTHER INFORMATION: downstream amplification primer 99-669 for SEQ 1828, in complement  
US-09-422-978-9693

Query Match 54.5%; Score 12; DB 4; Length 20;  
Best Local Similarity 75.0%; Pred. No. 1.2e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGGTACAGGTAGAAAAG 20  
| | | | | | | | | | | | | | | | | | | | | |  
Db 20 GTATGCTCGAGGTATAAAG 1

## RESULT 17

US-09-696-791-4514/c  
; Sequence 4514, Application US/09696791  
; Patent No. 6770633

## GENERAL INFORMATION:

; APPLICANT: Robbins, Joan M.  
; APPLICANT: Tritz, Richard  
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE  
; TITLE OF INVENTION: SKIN AND EYE DISEASES  
; FILE REFERENCE: 480124.407  
; CURRENT APPLICATION NUMBER: US/09/696,791  
; CURRENT FILING DATE: 2000-10-25  
; NUMBER OF SEQ ID NOS: 4523  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4514  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; FEATURE:  
; OTHER INFORMATION: VEGF hammerhead ribozyme recognition site  
US-09-696-791-4514

Query Match 54.5%; Score 12; DB 4; Length 21;  
Best Local Similarity 75.0%; Pred. No. 1.2e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CATGTTACAGGTAGAAAGC 21  
| | | | | | | | | | | | | | | | | | | | | |  
Db 21 CATGGTGGAGGTAGAGCAGC 2

## RESULT 18

US-09-422-978-6072  
; Sequence 6072, Application US/09422978  
; Patent No. 6537751

## GENERAL INFORMATION:

; APPLICANT: Cohen, Daniel  
; APPLICANT: Blumenfeld, Marta  
; TITLE OF INVENTION: Blallelic markers for use in constructing a high density...  
; FILE REFERENCE: GENSET.020C91  
; CURRENT APPLICATION NUMBER: US/09/422,978  
; CURRENT FILING DATE: 1999-10-20  
; EARLIER APPLICATION NUMBER: US 09/298,850  
; EARLIER FILING DATE: 1999-04-21  
; EARLIER APPLICATION NUMBER: US 60/109,732  
; EARLIER FILING DATE: 1998-11-23  
; EARLIER APPLICATION NUMBER: US 60/082,614  
; EARLIER FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 11796  
; SEQ ID NO 6072  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: primer\_bind  
; LOCATION: 1..19  
; OTHER INFORMATION: upstream amplification primer 99-8748 for SEQ 2138,  
US-09-422-978-6072

Query Match 53.6%; Score 11.8; DB 4; Length 19;  
Best Local Similarity 86.7%; Pred. No. 1.5e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAA 19  
| | | | | | | | | | | | | | | | | | | | | |  
Db 1 GTTAGAGTTGAAAA 15

## RESULT 19

US-08-477-270-27/c  
; Sequence 27, Application US/08477270  
; Patent No. 5629158

## GENERAL INFORMATION:

; APPLICANT: UHLEN, Mathias  
; TITLE OF INVENTION: SOLID PHASE DIAGNOSIS OF MEDICAL  
; TITLE OF INVENTION: CONDITIONS  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 1800 Diagonal Road, Suite 500  
; CITY: Alexandria  
; STATE: Virginia  
; COUNTRY: USA  
; ZIP: 22313-0299  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/477,270  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/261,010  
; FILING DATE:  
; APPLICATION NUMBER: US 07/781,157  
; FILING DATE: 07-NOV-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BENT, Stephen A.  
; REGISTRATION NUMBER: 29,768  
; REFERENCE/DOCKET NUMBER: 16787/153 DFBC  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703)836-9300

OTHER INFORMATION: synthetic sequence  
US-09-648-520E-29



OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/985,162  
FILING DATE: 04 December 1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/036,476  
FILING DATE: 31 January 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 230/107  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 702:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-985-162-702

Query Match 51.8%; Score 11.4; DB 3; Length 17;  
Best Local Similarity 61.5%; Pred. No. 2.3e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGT 13  
|||: :|||:  
Db 5 GCAUUUACAGU 17

## RESULT 24

US-08-985-162-703  
Sequence 703, Application US/08985162  
Patent No. 6057156  
GENERAL INFORMATION:

APPLICANT: Akhtar, Saghir  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
TITLE OF INVENTION: FACTOR RECEPTORS  
NUMBER OF SEQUENCES: 1877  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/985,162  
FILING DATE: 04 December 1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/036,476  
FILING DATE: 31 January 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 230/107  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 703:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-985-162-703

Query Match 51.8%; Score 11.4; DB 3; Length 17;  
Best Local Similarity 61.5%; Pred. No. 2.3e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGT 13  
|||: :|||:  
Db 4 GCAUUUACAGU 16

## RESULT 25

US-08-985-162-704  
Sequence 704, Application US/08985162  
Patent No. 6057156  
GENERAL INFORMATION:

APPLICANT: Akhtar, Saghir  
APPLICANT: Fell, Patricia  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
TITLE OF INVENTION: FACTOR RECEPTORS  
NUMBER OF SEQUENCES: 1877  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/985,162  
FILING DATE: 04 December 1997  
CLASSIFICATION: 514

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/036,476  
FILING DATE: 31 January 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 230/107  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 704:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-985-162-704

Query Match 51.8%; Score 11.4; DB 3; Length 17;  
Best Local Similarity 61.5%; Pred. No. 2.3e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGT 13  
|||: :|||:  
Db 3 GCAUUUACAGGU 15

## RESULT 26

US-08-985-162-705  
; Sequence 705, Application US/08985162  
; Patent No. 6057156  
; GENERAL INFORMATION:  
; APPLICANT: Akhtar, Saghir  
; APPLICANT: Fell, Patricia  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT  
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
; TITLE OF INVENTION: FACTOR RECEPTORS  
; NUMBER OF SEQUENCES: 1877  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSeq for Windows 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/985,162  
; FILING DATE: 04 December 1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/036,476  
; FILING DATE: 31 January 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 230/107  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 705:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-985-162-705  
Query Match 51.8%; Score 11.4; DB 3; Length 17;  
Best Local Similarity 61.5%; Pred. No. 2.3e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 GCATGTTACAGT 13  
|||: :|||:  
Db 2 GCAUUUACAGGU 14

## RESULT 27

US-08-584-040-1534  
; Sequence 1534, Application US/08584040  
; Patent No. 6346398  
; GENERAL INFORMATION:  
; APPLICANT: Pavco, Pamela  
; APPLICANT: McSwiggen, James  
; APPLICANT: Stinchcomb, Dan T.

; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
; TITLE OF INVENTION: TREATMENT OF DISEASES OR  
; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS  
; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL  
; TITLE OF INVENTION: GROWTH FACTOR  
; NUMBER OF SEQUENCES: 8502  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/584,040  
; FILING DATE: January 11, 1996  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/005,974  
; FILING DATE: October 26, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 218/064  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 1534:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-584-040-1534  
Query Match 51.8%; Score 11.4; DB 3; Length 17;  
Best Local Similarity 69.2%; Pred. No. 2.3e+04;  
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
Qy 4 TGTTACAGGTAGA 16  
:|: |||:|  
Db 5 UGAUACAGGUGA 17  
:|: |||:|  
RESULT 28  
US-09-371-772B-79  
; Sequence 79, Application US/09371772B  
; Patent No. 6566127  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; TITLE OF INVENTION: Levels of Vascular  
; FILE REFERENCE: MBH00,876-J (237/198)  
; CURRENT APPLICATION NUMBER: US/09/371,772B  
; CURRENT FILING DATE: 1999-08-10  
; PRIOR APPLICATION NUMBER: US 60/005,974  
; PRIOR FILING DATE: 1995-10-26  
; PRIOR APPLICATION NUMBER: US 08/584,040  
; PRIOR FILING DATE: 1996-01-08  
; NUMBER OF SEQ ID NOS: 14225

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; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 79
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-79

Query Match      51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 69.2%; Pred. No. 2.3e+04;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGA 16
Db 5 UGAUACAGGUAGA 17

RESULT 29
US-09-371-772B-4284
; Sequence 4284, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to Vascular Endothelial Growth Factor Receptor
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4284
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-4284

Query Match      51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 69.2%; Pred. No. 2.3e+04;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGA 16
Db 3 UGAUACAGGUAGA 15

RESULT 30
US-09-401-063-702
; Sequence 702, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066

Query Match      51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 69.2%; Pred. No. 2.3e+04;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGA 16
Db 3 UGAUACAGGUAGA 15

RESULT 31
US-09-401-063-703
; Sequence 703, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066

Query Match      51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 61.5%; Pred. No. 2.3e+04;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGT 13
Db 5 GCAUUUACAGGU 17

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/401,063
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/985,162
FILING DATE: 04 December 1997
APPLICATION NUMBER: 60/036,476
FILING DATE: 31 January 1997
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230/107
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 702:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-401-063-702
```

```
;
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 703:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-401-063-703

Query Match 51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 61.5%; Pred. No. 2.3e+04;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGT 13
Db 4 GCAUUUACAGGU 16
|||: ::|||:
|||: ::|||:

RESULT 32
US-09-401-063-704
; Sequence 704, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Fast-SEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 704:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-401-063-704

Query Match 51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 61.5%; Pred. No. 2.3e+04;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGT 13
Db 4 GCAUUUACAGGU 16
|||: ::|||:
|||: ::|||:

RESULT 33
US-09-401-063-705
; Sequence 705, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Fast-SEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 705:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-401-063-705

Query Match 51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 61.5%; Pred. No. 2.3e+04;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGT 13
```

```
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-401-063-704

Query Match 51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 61.5%; Pred. No. 2.3e+04;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGT 13
Db 3 GCAUUUACAGGU 15
|||: ::|||:
|||: ::|||:

RESULT 33
US-09-401-063-705
; Sequence 705, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Fast-SEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 705:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-401-063-705

Query Match 51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 61.5%; Pred. No. 2.3e+04;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGT 13
```

```
Db      2  GCAUUUACAGGU 14
||||: ::|||||:
||||: ::|||||:

RESULT 34
US-09-685-664B-79
; Sequence 79, Application US/09685664B
; Patent No. 681847
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for Treatment of Diseases or Conditions Related to Vascular Endothelial Growth Factor Receptor
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00-876-K (400/021)
; CURRENT APPLICATION NUMBER: US/09/685,664B
; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; PRIOR APPLICATION NUMBER: US 09/371,772
; PRIOR FILING DATE: 1999-08-10
; NUMBER OF SEQ ID NOS: 8231
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 79
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-685-664B-79

Query Match      51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 69.2%; Pred. No. 2.3e+04;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Oy      4  TGTTACAGGTAGA 16
       :|:|||||:
Db      5  UGAUACAGGUAGA 17

RESULT 35
US-08-981-988A-27
; Sequence 27, Application US/08981988A
; Patent No. 6337194
; GENERAL INFORMATION:
; APPLICANT: Vittal Mallya Scientific Research Foundation
; APPLICANT: The University of Leicester
; TITLE OF INVENTION: Insulin
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: VITTAL MALLYA SCIENTIFIC RESEARCH FOUNDATION
; STREET: K. R. ROAD
; CITY: BANGALORE
; COUNTRY: INDIA
; ZIP: 560 004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/981,988A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9513967.1
; FILING DATE: 08-JUL-1995
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid

; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-981-988A-27

Query Match      51.8%; Score 11.4; DB 3; Length 18;
Best Local Similarity 92.3%; Pred. No. 2.3e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy      10 AGGTAGAAAAGCC 22
       |||||
Db      3  AGGTAGACAGCC 15

RESULT 36
US-09-531-000-7
; Sequence 7, Application US/09531000
; Patent No. 6461810
; GENERAL INFORMATION:
; APPLICANT: JOHNSON, Marion D.
; APPLICANT: FRESCO, Jacques R.
; TITLE OF INVENTION: TRIPLEX IN-SITU HYBRIDIZATION
; FILE REFERENCE: 2448-103
; CURRENT APPLICATION NUMBER: US/09/531,000
; CURRENT FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/23765
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: 60/064,997
; PRIOR FILING DATE: 1997-11-10
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target
; OTHER INFORMATION: sequences
US-09-531-000-7

Query Match      51.8%; Score 11.4; DB 3; Length 19;
Best Local Similarity 92.3%; Pred. No. 2.3e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy      8  ACAGGTAGAAAAG 20
       |||||
Db      1  AAAGGTAGAAAAG 13

RESULT 37
US-09-531-000-34
; Sequence 34, Application US/09531000
; Patent No. 6461810
; GENERAL INFORMATION:
; APPLICANT: JOHNSON, Marion D.
; APPLICANT: FRESCO, Jacques R.
; TITLE OF INVENTION: TRIPLEX IN-SITU HYBRIDIZATION
; FILE REFERENCE: 2448-103
; CURRENT APPLICATION NUMBER: US/09/531,000
; CURRENT FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/23765
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: 60/064,997
; PRIOR FILING DATE: 1997-11-10
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target
; OTHER INFORMATION: sequences
US-09-531-000-34
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Query Match 51.8%; Score 11.4; DB 3; Length 19;  
Best Local Similarity 92.3%; Pred. No. 2.3e+04; Length 19;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAAG 20  
| | | | | | | | | |  
Db 1 AAAGGTAGAAAAG 13

RESULT 38  
US-09-531-000-38  
; Sequence 38, Application US/09531000  
; Patent No. 6461810  
; GENERAL INFORMATION:  
; APPLICANT: JOHNSON, Marion D.  
; APPLICANT: FRESCO, Jacques R.  
; TITLE OF INVENTION: TRIPLEX IN-SITU HYBRIDIZATION  
; FILE REFERENCE: 2448-103  
; CURRENT APPLICATION NUMBER: US/09/531,000  
; CURRENT FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: PCT/US98/23765  
; PRIOR FILING DATE: 1998-11-10  
; PRIOR APPLICATION NUMBER: 60/064,997  
; PRIOR FILING DATE: 1997-11-10  
; NUMBER OF SEQ ID NOS: 77  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 38  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Target  
; OTHER INFORMATION: sequences  
US-09-531-000-38

Query Match 51.8%; Score 11.4; DB 3; Length 19;  
Best Local Similarity 92.3%; Pred. No. 2.3e+04; Length 19;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAAG 20  
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Db 1 AAAGGTAGAAAAG 13

RESULT 39  
US-09-422-978-6684  
; Sequence 6684, Application US/09422978  
; Patent No. 6537751  
; GENERAL INFORMATION:  
; APPLICANT: Cohen, Daniel  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Chumakov, Ilya  
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
; FILE REFERENCE: GENSET 020CP1  
; CURRENT APPLICATION NUMBER: US/09/422,978  
; CURRENT FILING DATE: 1999-10-20  
; EARLIER APPLICATION NUMBER: US 09/298,850  
; EARLIER FILING DATE: 1999-04-21  
; EARLIER APPLICATION NUMBER: US 60/109,732  
; EARLIER FILING DATE: 1998-11-23  
; EARLIER APPLICATION NUMBER: US 60/082,614  
; EARLIER FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 11796  
; SEQ ID NO 6684  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: primer bind  
; LOCATION: 1..19  
; OTHER INFORMATION: upstream amplification primer 99-16772 for SEQ 2750,  
US-09-422-978-6684

Query Match 51.8%; Score 11.4; DB 4; Length 19;  
Best Local Similarity 92.3%; Pred. No. 2.3e+04; Length 19;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAAG 20  
| | | | | | | | | |  
Db 6 ACAGGAAGAAAAG 18

RESULT 40  
US-08-882-046-89/c  
; Sequence 89, Application US/08882046  
; Patent No. 6136952  
; GENERAL INFORMATION:  
; APPLICANT: Li, Linheng  
; APPLICANT: Hood, Leroy  
; APPLICANT: Krantz, Ian D.  
; APPLICANT: Spinner, Nancy B.  
; TITLE OF INVENTION: Human Jagged Polypeptide, Encoding  
; TITLE OF INVENTION: Nucleic Acids and Methods of Use  
; NUMBER OF SEQUENCES: 110  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Campbell & Flores LLP  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: USA  
; ZIP: 92122  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,046  
; FILING DATE: 25-JUN-1997  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Campbell, Cathryn A.  
; REGISTRATION NUMBER: 31,815  
; REFERENCE/DOCKET NUMBER: P-UW 2637  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 89:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-882-046-89

Query Match 51.8%; Score 11.4; DB 3; Length 20;  
Best Local Similarity 92.3%; Pred. No. 2.4e+04; Length 20;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAG 15  
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Db 17 ATGTTACAGGTG 5

Search completed: August 12, 2005, 09:56:34  
Job time : 97 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 08:55:07 ; Search time 371 Seconds  
(without alignment)

384.741 Million cell updates/sec

Title: US-09-743-825-7

Perfect score: 22

Sequence: 1 gcattgacaggtagaagcc 22

Scoring table: IDENTITY\_NUC

Gapop 10.0' , Gapext 1.0

Searched: 7305758 seqs, 3244068913 residues

Total number of hits satisfying chosen parameters: 2085186

Minimum DB seq length: 0

Maximum DB seq length: 22

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications NA:\*

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2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*  
3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq.\*  
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6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq.\*  
7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*  
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9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*  
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12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*  
13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*  
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18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq.\*  
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22: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*  
23: /cgn2\_6/ptodata/2/pubpna/US11A\_PUBCOMB.seq.\*  
24: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq.\*  
25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description        |
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| C 1        | 15.2  | 69.1        | 20     | 17 | US-10-289-762-5333 |
| C 2        | 13.2  | 60.0        | 21     | 14 | US-10-210-296-50   |
| C 3        | 13.2  | 60.0        | 21     | 17 | US-10-449-462-50   |
| C 4        | 13.2  | 60.0        | 21     | 22 | US-10-449-648-50   |
| C 5        | 12.8  | 58.2        | 19     | 10 | US-09-988-626-157  |
| C 6        | 12.8  | 58.2        | 19     | 10 | US-09-988-687-157  |
| C 7        | 12.8  | 58.2        | 19     | 10 | US-09-988-686-157  |
| C 8        | 12.8  | 58.2        | 20     | 17 | US-10-289-762-5333 |
| C 9        | 12.8  | 58.2        | 20     | 17 | US-10-210-296-50   |
| C 10       | 12.8  | 58.2        | 20     | 17 | US-10-449-462-50   |
| C 11       | 12.8  | 58.2        | 20     | 22 | US-10-449-648-50   |
| C 12       | 12.8  | 58.2        | 20     | 22 | US-09-988-626-157  |
| C 13       | 12.8  | 58.2        | 20     | 22 | US-09-988-687-157  |
| C 14       | 12.8  | 58.2        | 20     | 22 | US-09-988-686-157  |
| C 15       | 12.8  | 58.2        | 20     | 22 | US-10-289-762-5333 |
| C 16       | 12.8  | 58.2        | 20     | 22 | US-10-210-296-50   |
| C 17       | 12.8  | 58.2        | 20     | 22 | US-10-449-462-50   |
| C 18       | 12.8  | 58.2        | 20     | 22 | US-10-449-648-50   |
| C 19       | 12.8  | 58.2        | 20     | 22 | US-09-988-626-157  |
| C 20       | 12.8  | 58.2        | 20     | 22 | US-09-988-687-157  |
| C 21       | 12.8  | 58.2        | 20     | 22 | US-09-988-686-157  |
| C 22       | 12.8  | 58.2        | 20     | 22 | US-10-289-762-5333 |
| C 23       | 12.8  | 58.2        | 20     | 22 | US-10-210-296-50   |
| C 24       | 12.8  | 58.2        | 20     | 22 | US-10-449-462-50   |
| C 25       | 12.8  | 58.2        | 20     | 22 | US-10-449-648-50   |
| C 26       | 12.8  | 58.2        | 20     | 22 | US-09-988-626-157  |
| C 27       | 12.8  | 58.2        | 20     | 22 | US-09-988-687-157  |
| C 28       | 12.8  | 58.2        | 20     | 22 | US-09-988-686-157  |
| C 29       | 12.8  | 58.2        | 20     | 22 | US-10-289-762-5333 |
| C 30       | 12.8  | 58.2        | 20     | 22 | US-10-210-296-50   |
| C 31       | 12.8  | 58.2        | 20     | 22 | US-10-449-462-50   |
| C 32       | 12.8  | 58.2        | 20     | 22 | US-10-449-648-50   |
| C 33       | 12.8  | 58.2        | 20     | 22 | US-09-988-626-157  |
| C 34       | 12.8  | 58.2        | 20     | 22 | US-09-988-687-157  |
| C 35       | 12.8  | 58.2        | 20     | 22 | US-09-988-686-157  |
| C 36       | 12.8  | 58.2        | 20     | 22 | US-10-289-762-5333 |
| C 37       | 12.8  | 58.2        | 20     | 22 | US-10-210-296-50   |
| C 38       | 12.8  | 58.2        | 20     | 22 | US-10-449-462-50   |
| C 39       | 12.8  | 58.2        | 20     | 22 | US-10-449-648-50   |
| C 40       | 12.8  | 58.2        | 20     | 22 | US-09-988-626-157  |
| C 41       | 12.8  | 58.2        | 20     | 22 | US-09-988-687-157  |
| C 42       | 12.8  | 58.2        | 20     | 22 | US-09-988-686-157  |
| C 43       | 12.8  | 58.2        | 20     | 22 | US-10-289-762-5333 |
| C 44       | 12.8  | 58.2        | 20     | 22 | US-10-210-296-50   |
| C 45       | 12.8  | 58.2        | 20     | 22 | US-10-449-462-50   |
| C 46       | 12.8  | 58.2        | 20     | 22 | US-10-449-648-50   |
| C 47       | 12.8  | 58.2        | 20     | 22 | US-09-988-626-157  |
| C 48       | 12.8  | 58.2        | 20     | 22 | US-09-988-687-157  |
| C 49       | 12.8  | 58.2        | 20     | 22 | US-09-988-686-157  |
| C 50       | 12.8  | 58.2        | 20     | 22 | US-10-289-762-5333 |
| C 51       | 12.8  | 58.2        | 20     | 22 | US-10-210-296-50   |
| C 52       | 12.8  | 58.2        | 20     | 22 | US-10-449-462-50   |
| C 53       | 12.8  | 58.2        | 20     | 22 | US-10-449-648-50   |
| C 54       | 12.8  | 58.2        | 20     | 22 | US-09-988-626-157  |
| C 55       | 12.8  | 58.2        | 20     | 22 | US-09-988-687-157  |
| C 56       | 12.8  | 58.2        | 20     | 22 | US-09-988-686-157  |
| C 57       | 12.8  | 58.2        | 20     | 22 | US-10-289-762-5333 |
| C 58       | 12.8  | 58.2        | 20     | 22 | US-10-210-296-50   |
| C 59       | 12.8  | 58.2        | 20     | 22 | US-10-449-462-50   |
| C 60       | 12.8  | 58.2        | 20     | 22 | US-10-449-648-50   |
| C 61       | 12.8  | 58.2        | 20     | 22 | US-09-988-626-157  |
| C 62       | 12.8  | 58.2        | 20     | 22 | US-09-988-687-157  |
| C 63       | 12.8  | 58.2        | 20     | 22 | US-09-988-686-157  |
| C 64       | 12.8  | 58.2        | 20     | 22 | US-10-289-762-5333 |
| C 65       | 12.8  | 58.2        | 20     | 22 | US-10-210-296-50   |
| C 66       | 12.8  | 58.2        | 20     | 22 | US-10-449-462-50   |
| C 67       | 12.8  | 58.2        | 20     | 22 | US-10-449-648-50   |
| C 68       | 12.8  | 58.2        | 20     | 22 | US-09-988-626-157  |
| C 69       | 12.8  | 58.2        | 20     | 22 | US-09-988-687-157  |
| C 70       | 12.8  | 58.2        | 20     | 22 | US-09-988-686-157  |
| C 71       | 12.8  | 58.2        | 20     | 22 | US-10-289-762-5333 |
| C 72       | 12.8  | 58.2        | 20     | 22 | US-10-210-296-50   |
| C 73       | 12.8  | 58.2        | 20     | 22 | US-10-449-462-50   |
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| C 75       | 12.8  | 58.2        | 20     | 22 | US-09-988-626-157  |
| C 76       | 12.8  | 58.2        | 20     | 22 | US-09-988-687-157  |
| C 77       | 12.8  | 58.2        | 20     | 22 | US-09-988-686-157  |
| C 78       | 12.8  | 58.2        | 20     | 22 | US-10-289-762-5333 |
| C 79       | 12.8  | 58.2        | 20     | 22 | US-10-210-296-50   |
| C 80       | 12.8  | 58.2        | 20     | 22 | US-10-449-462-50   |

Sequence 75, Appl  
Sequence 524, Appl  
Sequence 230, Appl  
Sequence 191, Appl  
Sequence 48, Appl  
Sequence 188, Appl  
Sequence 80, Appl  
Sequence 12579, A  
Sequence 12580, A  
Sequence 177, Appl  
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Sequence 44, Appl  
Sequence 72, Appl  
Sequence 218, Appl  
Sequence 50, Appl  
Sequence 274, Appl  
Sequence 831, Appl  
Sequence 1680, Appl  
Sequence 10500, A  
Sequence 15982, A  
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Sequence 9693, Appl  
Sequence 4522, Appl  
Sequence 4524, Appl  
Sequence 6072, Appl  
Sequence 317, Appl  
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Sequence 76, Appl  
Sequence 22, Appl  
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Sequence 11, Appl  
Sequence 181, Appl  
Sequence 12793, A  
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Sequence 12795, A  
Sequence 12796, A  
Sequence 12797, A  
Sequence 12798, A  
Sequence 11, Appl  
Sequence 12, Appl  
Sequence 28206, A  
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Sequence 33372, A  
Sequence 117, Appl  
Sequence 4544, Appl  
Sequence 29, Appl  
Sequence 31, Appl  
Sequence 12578, A  
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Sequence 14588, A  
Sequence 14589, A  
Sequence 14590, A  
Sequence 19851, A  
Sequence 31339, A  
Sequence 31340, A  
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Sequence 286, Appl  
Sequence 71423, A  
Sequence 71424, A  
Sequence 18, Appl  
Sequence 102, Appl  
Sequence 78, Appl





Qy 4 TGTACAGGTAGAAAAGC 21  
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 Db 2 TGTACAGCAAGAAAAGC 19

RESULT 5

US-09-988-626-157/c  
 ; Sequence 157, Application US/09988626  
 ; Publication No. US20030044959A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Tavtigian, Sean V.  
 ; APPLICANT: Teng, David H.F.  
 ; APPLICANT: Simard, Jacques  
 ; APPLICANT: Rommens, Johanna M.  
 ; APPLICANT: Myriad Genetics, Inc.  
 ; TITLE OF INVENTION: Chromosome 17p-Linked Prostate Cancer Susceptibility  
 ; TITLE OF INVENTION: Gene and a Paralog and Orthologous Genes  
 ; FILE REFERENCE: 2318-258  
 ; CURRENT APPLICATION NUMBER: US/09/988,626  
 ; CURRENT FILING DATE: 2001-11-20  
 ; PRIOR APPLICATION NUMBER: 09/564,805  
 ; PRIOR FILING DATE: 2000-05-05  
 ; PRIOR APPLICATION NUMBER: US 60/107,468  
 ; PRIOR FILING DATE: 1998-11-06  
 ; PRIOR APPLICATION NUMBER: 09/434,382  
 ; PRIOR FILING DATE: 1999-11-05  
 ; NUMBER OF SEQ ID NOS: 240  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 157  
 ; LENGTH: 19  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; ORGANISM: Homo sapiens

Query Match 58.2%; Score 12.8; DB 10; Length 19;  
 Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAA 18  
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 Db 19 ATGTCACAGGCAGAAA 4

RESULT 6

US-09-988-687-157/c  
 ; Sequence 157, Application US/09988687  
 ; Publication No. US20030045704A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Tavtigian, Sean V.  
 ; APPLICANT: Teng, David H.F.  
 ; APPLICANT: Simard, Jacques  
 ; APPLICANT: Rommens, Johanna M.  
 ; APPLICANT: Myriad Genetics, Inc.  
 ; TITLE OF INVENTION: Chromosome 17p-Linked Prostate Cancer Susceptibility  
 ; TITLE OF INVENTION: Gene and a Paralog and Orthologous Genes  
 ; FILE REFERENCE: 2318-258  
 ; CURRENT APPLICATION NUMBER: US/09/988,687  
 ; CURRENT FILING DATE: 2001-11-20  
 ; PRIOR APPLICATION NUMBER: 09/564,805  
 ; PRIOR FILING DATE: 2000-05-05  
 ; PRIOR APPLICATION NUMBER: US 60/107,468  
 ; PRIOR FILING DATE: 1998-11-06  
 ; PRIOR APPLICATION NUMBER: 09/434,382  
 ; PRIOR FILING DATE: 1999-11-05  
 ; NUMBER OF SEQ ID NOS: 240  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 157  
 ; LENGTH: 19  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; ORGANISM: Homo sapiens

US-09-988-687-157

Query Match 58.2%; Score 12.8; DB 10; Length 19;  
 Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
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 Db 19 ATGTCACAGGCAGAAA 4

RESULT 7

US-09-988-686-157/c  
 ; Sequence 157, Application US/09988686  
 ; Publication No. US20030120052A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Tavtigian, Sean V.  
 ; APPLICANT: Teng, David H.F.  
 ; APPLICANT: Simard, Jacques  
 ; APPLICANT: Rommens, Johanna M.  
 ; APPLICANT: Myriad Genetics, Inc.  
 ; TITLE OF INVENTION: Chromosome 17p-Linked Prostate Cancer Susceptibility  
 ; TITLE OF INVENTION: Gene and a Paralog and Orthologous Genes  
 ; FILE REFERENCE: 2318-258  
 ; CURRENT APPLICATION NUMBER: US/09/988,686  
 ; CURRENT FILING DATE: 2001-11-20  
 ; PRIOR APPLICATION NUMBER: 09/564,805  
 ; PRIOR FILING DATE: 2000-05-05  
 ; PRIOR APPLICATION NUMBER: US 60/107,468  
 ; PRIOR FILING DATE: 1998-11-06  
 ; PRIOR APPLICATION NUMBER: 09/434,382  
 ; PRIOR FILING DATE: 1999-11-05  
 ; NUMBER OF SEQ ID NOS: 240  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 157  
 ; LENGTH: 19  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; ORGANISM: Homo sapiens

Query Match 58.2%; Score 12.8; DB 10; Length 19;  
 Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAA 18  
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 Db 19 ATGTCACAGGCAGAAA 4

RESULT 8

US-09-906-158-75/c  
 ; Sequence 75, Application US/09906158  
 ; Publication No. US20030078217A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Brett P. Monia  
 ; APPLICANT: Susan M. Freier  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF TRANSFORMING GROWTH FACTOR-BETA 3 EXPRESSION  
 ; FILE REFERENCE: RTS-0257  
 ; CURRENT APPLICATION NUMBER: US/09/906,158  
 ; CURRENT FILING DATE: 2001-07-14  
 ; NUMBER OF SEQ ID NOS: 168  
 ; SEQ ID NO 75  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 ; US-09-906-158-75

Query Match 58.2%; Score 12.8; DB 10; Length 20;  
 Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22  
 |||||

```
Db      18 TACAGGGAGAAAATCC 3

RESULT 9
US-10-388-263-524/c
; Sequence 524, Application US/10388263
; Publication No. US20030228597A1
; GENERAL INFORMATION:
; APPLICANT: Cowsert, Lex M.
; APPLICANT: Baker, Brenda F.
; APPLICANT: McNeil, John
; APPLICANT: Freier, Susan M.
; APPLICANT: Sasnor, Henri M.
; APPLICANT: Brooks, Douglas G.
; APPLICANT: Ohashi, Cara
; APPLICANT: Wyatt, Jacqueline R.
; APPLICANT: Borchers, Alexander
; APPLICANT: Vickers, Timothy A.
; TITLE OF INVENTION: IDENTIFICATION OF GENETIC TARGETS FOR
; TITLE OF INVENTION: MODULATION BY OLIGONUCLEOTIDES AND
; FILE REFERENCE: ISIS-4503
; CURRENT APPLICATION NUMBER: US/10/388,263
; CURRENT FILING DATE: 2003-03-12
; NUMBER OF SEQ ID NOS: 947
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 524
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-388-263-524

Query Match      58.2%; Score 12.8; DB 17; Length 20;
Best Local Similarity 87.5%; Pred. No. 2.6e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      7 TACAGGTAGAAAAGCC 22
      ||||| ||||| |||||
Db      18 TACAGGGAGAAAATCC 3

RESULT 10
US-10-388-360-230/c
; Sequence 230, Application US/10388360
; Publication No. US20030225528A1
; GENERAL INFORMATION:
; APPLICANT: GENOMIC HEALTH
; APPLICANT: Baker, Joffre B.
; APPLICANT: Cronin, Maureen T.
; APPLICANT: Kiefer, Michael C.
; APPLICANT: Shak, Steve
; APPLICANT: Walker, Michael Graham
; TITLE OF INVENTION: GENE EXPRESSION PROFILING IN BIOPSIED TUMOR TISSUES
; FILE REFERENCE: 39740-000IUS
; CURRENT APPLICATION NUMBER: US/10/388,360
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: US 60/412,049
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: US 60/364,890
; PRIOR FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 384
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 230
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-388-360-230

Query Match      58.2%; Score 12.8; DB 17; Length 21;
Best Local Similarity 87.5%; Pred. No. 2.6e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Db      18 TACAGGGAGAAAATCC 3

RESULT 11
US-10-758-307-191/c
; Sequence 191, Application US/10758307
; Publication No. US20040209290A1
; GENERAL INFORMATION:
; APPLICANT: GENOMIC HEALTH, INC.
; APPLICANT: RUSH UNIVERSITY MEDICAL CENTER
; APPLICANT: Cobleigh, Melody
; APPLICANT: Shak, Steven
; APPLICANT: Baker, Joffre
; APPLICANT: Cronin, Maureen
; TITLE OF INVENTION: GENE EXPRESSION MARKERS FOR BREAST
; FILE REFERENCE: 39740/0008 US
; CURRENT APPLICATION NUMBER: US/10/758,307
; CURRENT FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 60/440,861
; PRIOR FILING DATE: 2003-01-15
; NUMBER OF SEQ ID NOS: 440
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 191
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: reverse primer
US-10-758-307-191

Query Match      58.2%; Score 12.8; DB 20; Length 21;
Best Local Similarity 87.5%; Pred. No. 2.6e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      7 TACAGGTAGAAAAGCC 22
      ||||| ||||| |||||
Db      21 TTCTGGTAGAAAAGCC 6

RESULT 12
US-10-690-880-48/c
; Sequence 48, Application US/10690880
; Publication No. US20050014165A1
; GENERAL INFORMATION:
; APPLICANT: LEE, NANCY M
; APPLICANT: CHEN, LING C
; TITLE OF INVENTION: BIOMARKER PANEL FOR COLORECTAL CANCER
; FILE REFERENCE: CPWC-010000US1
; CURRENT APPLICATION NUMBER: US/10/690,880
; CURRENT FILING DATE: 2003-10-22
; NUMBER OF SEQ ID NOS: 88
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 48
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: primer
US-10-690-880-48

Query Match      58.2%; Score 12.8; DB 21; Length 21;
Best Local Similarity 87.5%; Pred. No. 2.6e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      7 TACAGGTAGAAAAGCC 22
      ||||| ||||| |||||
Db      21 TTCTGGTAGAAAAGCC 6
```

RESULT 13  
US-10-714-195-188/c  
; Sequence 188, Application US/10714195  
; Publication No. US20050019785A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Joffre  
; APPLICANT: Cronin, Maureen  
; APPLICANT: Shak, Steve  
; APPLICANT: Baselga, Jose  
; TITLE OF INVENTION: GENE EXPRESSION PROFILING OF EGFR  
; FILE REFERENCE: 39740-0005  
; CURRENT FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/427090  
; PRIOR FILING DATE: 2003-11-15  
; NUMBER OF SEQ ID NOS: 372  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 188  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: primer  
US-10-714-195-188

Query Match 58.2%; Score 12.8; DB 21; Length 21;  
Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22  
Db 21 TTCTGGTAGAAAAGCC 6

RESULT 14  
US-10-852-797-80/c  
; Sequence 80, Application US/10852797  
; Publication No. US20050064455A1  
; GENERAL INFORMATION:  
; APPLICANT: Genomic Health, Inc.  
; APPLICANT: Baker, Joffre  
; APPLICANT: Miller, Kathy D.  
; APPLICANT: Shak, Steven  
; APPLICANT: Sledge, George  
; APPLICANT: Soule, Sharon  
; TITLE OF INVENTION: Gene Expression Markers for Predicting  
; Response to Chemotherapy  
; FILE REFERENCE: 39740-0010  
; CURRENT APPLICATION NUMBER: US/10/852,797  
; CURRENT FILING DATE: 2004-05-24  
; PRIOR APPLICATION NUMBER: 60/473,970  
; PRIOR FILING DATE: 2003-05-28  
; NUMBER OF SEQ ID NOS: 372  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 80  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: reverse primer  
US-10-852-797-80

Query Match 58.2%; Score 12.8; DB 21; Length 21;  
Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22  
Db 21 TTCTGGTAGAAAAGCC 6

RESULT 15  
US-10-831-901A-12579/c  
; Sequence 12579, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; Acute Respiratory Syndrome (SARS)  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12579  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-12579

Query Match 57.3%; Score 12.6; DB 21; Length 20;  
Best Local Similarity 78.9%; Pred. No. 3.2e+04;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAAAAGCC 22  
Db 19 TGTTACAGCTCTAAGAGCC 1

RESULT 16  
US-10-831-901A-12580/c  
; Sequence 12580, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; Acute Respiratory Syndrome (SARS)  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-04-28

; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12580  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-12580

Query Match 57.3%; Score 12.6; DB 21; Length 20;  
Best Local Similarity 78.9%; Pred. No. 3.2e+04;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 TGTTCACGGTAGAAGCC 22  
|||||  
Db 20 TGTTCACGCTCTAAGAGCC 2

RESULT 17  
US-10-883-218-177/c  
; Sequence 177, Application US/10883218  
; Publication No. US20050124567A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TRPM7 Gene Expression  
; FILE REFERENCE: 400/195 (MBHB04-535)  
; CURRENT APPLICATION NUMBER: US/10/883,218  
; CURRENT FILING DATE: 2004-07-01  
; PRIOR APPLICATION NUMBER: PCT/US04/16390  
; PRIOR FILING DATE: 2003-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: US 10/757,803  
; PRIOR FILING DATE: 2004-01-14  
; PRIOR APPLICATION NUMBER: US 10/720,448  
; PRIOR FILING DATE: 2003-11-24  
; PRIOR APPLICATION NUMBER: US 10/693,059  
; PRIOR FILING DATE: 2003-10-23  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: PCT/US03/05028  
; PRIOR FILING DATE: 2003-05-23  
; PRIOR APPLICATION NUMBER: US 10/427,160  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: PCT/US03/05028  
; PRIOR FILING DATE: 2003-10-23  
; PRIOR APPLICATION NUMBER: US 10/444,853  
; PRIOR FILING DATE: 2003-05-23  
; PRIOR APPLICATION NUMBER: US 10/720,448  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: PCT/US03/05028  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: US 60/358,580  
; PRIOR FILING DATE: 2002-02-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 930  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 177  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense  
US-10-883-218-177

Query Match 56.4%; Score 12.4; DB 22; Length 19;  
Best Local Similarity 92.9%; Pred. No. 4e+04;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAA 19  
|||||  
Db 15 TTACAGCTAGAAAA 2

RESULT 18  
US-10-883-218-579  
; Sequence 579, Application US/10883218  
; Publication No. US20050124567A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: Haerberli, Peter  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TRPM7 Gene Expression  
; FILE REFERENCE: 400/195 (MBHB04-535)  
; CURRENT APPLICATION NUMBER: US/10/883,218  
; CURRENT FILING DATE: 2004-07-01  
; PRIOR APPLICATION NUMBER: PCT/US04/16390  
; PRIOR FILING DATE: 2003-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: US 10/757,803  
; PRIOR FILING DATE: 2004-01-14  
; PRIOR APPLICATION NUMBER: US 10/720,448  
; PRIOR FILING DATE: 2003-11-24  
; PRIOR APPLICATION NUMBER: US 10/693,059  
; PRIOR FILING DATE: 2003-10-23  
; PRIOR APPLICATION NUMBER: US 10/444,853  
; PRIOR FILING DATE: 2003-05-23  
; PRIOR APPLICATION NUMBER: US 10/427,160  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: PCT/US03/05028  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: US 60/358,580  
; PRIOR FILING DATE: 2002-02-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 930  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 579  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region  
US-10-883-218-579

Query Match 56.4%; Score 12.4; DB 22; Length 19;  
Best Local Similarity 71.4%; Pred. No. 4e+04;  
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAA 19  
:|||||  
Db 5 UTACAGCTAGAAAA 18

RESULT 19  
US-10-219-834-44  
; Sequence 44, Application US/10219834  
; Publication No. US20030096751A1  
; GENERAL INFORMATION:  
; APPLICANT: Bristol-Myers Squibb Company  
; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTOR POLYNUCLEOTIDES AND METHODS OF USE THE  
; FILE REFERENCE: D0191 NP  
; CURRENT APPLICATION NUMBER: US/10/219,834  
; CURRENT FILING DATE: 2002-08-15  
; PRIOR APPLICATION NUMBER: US 60/313,658

;  
; PRIOR FILING DATE: 2001-08-20  
; PRIOR APPLICATION NUMBER: US 60/340,703  
; PRIOR FILING DATE: 2001-10-30  
; PRIOR APPLICATION NUMBER: US 60/318,675  
; PRIOR FILING DATE: 2001-09-12  
; PRIOR APPLICATION NUMBER: US 60/355,596  
; PRIOR FILING DATE: 2002-02-06  
; PRIOR APPLICATION NUMBER: US 60/333,417  
; PRIOR FILING DATE: 2001-11-26  
; PRIOR APPLICATION NUMBER: US 60/338,367  
; PRIOR FILING DATE: 2001-12-06  
; NUMBER OF SEQ ID NOS: 192  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 44  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-219-834-44

Query Match 56.4%; Score 12.4; DB 14; Length 20;  
Best Local Similarity 92.9%; Pred. No. 4.1e+04;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAAGCC 22  
|||||  
Db 2 CAGGAGAAAAGCC 15

RESULT 20  
US-10-436-715-92  
; Sequence 92, Application US/10436715  
; Publication No. US20040018976A1  
; GENERAL INFORMATION:  
; APPLICANT: Bristol-Myers Squibb Company  
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,  
; FILE REFERENCE: D0262 NP  
; CURRENT APPLICATION NUMBER: US/10/436,715  
; CURRENT FILING DATE: 2003-05-13  
; PRIOR APPLICATION NUMBER: U.S. 60/380,336  
; PRIOR FILING DATE: 2002-05-14  
; NUMBER OF SEQ ID NOS: 471  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 92  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-436-715-92

Query Match 56.4%; Score 12.4; DB 17; Length 20;  
Best Local Similarity 92.9%; Pred. No. 4.1e+04;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAAGCC 22  
|||||  
Db 2 CAGGAGAAAAGCC 15

RESULT 21  
US-10-349-143-4779  
; Sequence 4779, Application US/10349143  
; Publication No. US2004000584A1  
; GENERAL INFORMATION:  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Chumakov, Ilya  
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
; FILE REFERENCE: GENSET.020CPI  
; CURRENT APPLICATION NUMBER: US/10/349,143  
; CURRENT FILING DATE: 2003-01-21  
; PRIOR APPLICATION NUMBER: US/09/422,978  
; PRIOR FILING DATE: 1999-10-20  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850

;  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 11796  
; SEQ ID NO 4779  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: primer\_bind  
; LOCATION: 1..18  
; OTHER INFORMATION: upstream amplification primer 99-17762 for SEQ 845,  
US-10-349-143-4779

Query Match 55.5%; Score 12.2; DB 17; Length 18;  
Best Local Similarity 82.4%; Pred. No. 5e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAAG 20  
|||||  
Db 1 TGTGAGAGGTAGAGAAG 17

RESULT 22  
US-10-922-626-197/c  
; Sequence 197, Application US/10922626  
; Publication No. US20050159380A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics  
; APPLICANT: Gueriolini, Roberto  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Angiopoietin Gene  
; FILE REFERENCE: 400/226 (MBHB04-673)  
; CURRENT APPLICATION NUMBER: US/10/922,626  
; CURRENT FILING DATE: 2004-08-19  
; PRIOR APPLICATION NUMBER: PCT/US04/16390  
; PRIOR FILING DATE: 2004-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: PCT/US04/13456  
; PRIOR FILING DATE: 2004-04-30  
; PRIOR APPLICATION NUMBER: US 10/780,447  
; PRIOR FILING DATE: 2004-02-13  
; PRIOR APPLICATION NUMBER: US 60/292,217  
; PRIOR FILING DATE: 2001-05-18  
; PRIOR APPLICATION NUMBER: US 60/362,016  
; PRIOR FILING DATE: 2002-03-06  
; PRIOR APPLICATION NUMBER: US 60/363,883  
; PRIOR FILING DATE: 2001-07-20  
; PRIOR APPLICATION NUMBER: US 60/311,865  
; PRIOR FILING DATE: 2001-08-13  
; PRIOR APPLICATION NUMBER: US 10/727,780  
; PRIOR FILING DATE: 2003-12-03  
; PRIOR APPLICATION NUMBER: US 60/543,480  
; PRIOR FILING DATE: 2004-02-10  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 686  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 197  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r

Query Match 55.5%; Score 12.2; DB 22; Length 19;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAGCC 22  
| | | | | | | | | | | | | | | | | | | | | |  
Db 19 TTACAGGCAGAGAAGAC 3

## RESULT 23

US-10-922-626-438  
; Sequence 438, Application US/10922626  
; Publication No. US20050159380A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics  
; APPLICANT: Guercioli, Roberto  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Angiopoietin Gene  
; TITLE OF INVENTION: Expression Using Short Interfering Nucleic Acid (siNA)  
; FILE REFERENCE: 400/226 (MEH04-673)  
; CURRENT APPLICATION NUMBER: US/10/922,626  
; CURRENT FILING DATE: 2004-08-19  
; PRIOR APPLICATION NUMBER: PCT/US04/16390  
; PRIOR FILING DATE: 2004-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: PCT/US04/13456  
; PRIOR FILING DATE: 2004-04-30  
; PRIOR APPLICATION NUMBER: US 10/780,447  
; PRIOR FILING DATE: 2004-02-13  
; PRIOR APPLICATION NUMBER: US 60/292,217  
; PRIOR FILING DATE: 2001-05-18  
; PRIOR APPLICATION NUMBER: US 60/362,016  
; PRIOR FILING DATE: 2002-03-06  
; PRIOR APPLICATION NUMBER: US 60/363,883  
; PRIOR FILING DATE: 2001-07-20  
; PRIOR APPLICATION NUMBER: US 60/311,865  
; PRIOR FILING DATE: 2001-08-13  
; PRIOR APPLICATION NUMBER: US 10/727,780  
; PRIOR FILING DATE: 2003-12-03  
; PRIOR APPLICATION NUMBER: US 60/543,480  
; PRIOR FILING DATE: 2004-02-10  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 686  
; SOFTWARE: Patent in version 3.3  
; SEQ ID NO 438  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region

US-10-922-626-438

Query Match 55.5%; Score 12.2; DB 22; Length 19;  
Best Local Similarity 70.6%; Pred. No. 5.1e+04;  
Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAGCC 22  
| | | | | | | | | | | | | | | | | | | | | |  
Db 1 UUACAGGCAGAGAAGAC 17

## RESULT 24

US-09-791-942-44/c  
; Sequence 44, Application US/09791942  
; Patent No. US20020147156A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Robert Rothlein  
; APPLICANT: Takashi Kei Kishimoto  
; APPLICANT: Lex M. Cowsett  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TALIN EXPRESSION  
; FILE REFERENCE: RTS-0099  
; CURRENT APPLICATION NUMBER: US/09/791,942  
; CURRENT FILING DATE: 2001-02-22  
; NUMBER OF SEQ ID NOS: 89  
; SEQ ID NO 44

; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-791-942-44

Query Match 55.5%; Score 12.2; DB 9; Length 20;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTACAGGTAGAAAAG 20  
| | | | | | | | | | | | | | | | | | | | | |  
Db 19 TGTTCAGGCAGCAAG 3

## RESULT 25

US-09-888-361-50  
; Sequence 50, Application US/09888361  
; Publication No. US2003006494A1  
; GENERAL INFORMATION:  
; APPLICANT: Susan Murray  
; APPLICANT: Jacqueline Wyatt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TRANSFORMING GROWTH FACTOR BETA RECEPTOR  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0158  
; CURRENT APPLICATION NUMBER: US/09/888,361  
; CURRENT FILING DATE: 2001-06-21  
; NUMBER OF SEQ ID NOS: 163  
; SEQ ID NO 50  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide

US-09-888-361-50

Query Match 55.5%; Score 12.2; DB 10; Length 20;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
| | | | | | | | | | | | | | | | | | | | | |  
Db 1 GTCACAGGTGAAAATC 17

## RESULT 26

US-10-415-463-44/c  
; Sequence 44, Application US/10415463  
; Publication No. US20040110705A1  
; GENERAL INFORMATION:  
; APPLICANT: Isis Pharmaceuticals, Inc.  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Lex M. Cowsett  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TALIN EXPRESSION  
; FILE REFERENCE: RTSP-0198  
; CURRENT APPLICATION NUMBER: US/10/415,463  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: 09/702,251  
; PRIOR FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 89  
; SEQ ID NO 44  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-415-463-44

Query Match 55.5%; Score 12.2; DB 19; Length 20;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAAAAG 20  
 ||||| ||||| |||||  
 Db 19 TGTTGACGAGCAGCAAAG 3

RESULT 27  
 US-10-889-101-72  
 ; Sequence 72, Application US/10889101  
 ; Publication No. US20050107324A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bennett, C. Frank  
 ; APPLICANT: Dobie, Kenneth W.  
 ; APPLICANT: Jain, Ravi  
 ; TITLE OF INVENTION: MODULATION OF CEACAM1 EXPRESSION  
 ; FILE REFERENCE: ISIS0101-100 (RTS-0655US)  
 ; CURRENT APPLICATION NUMBER: US/10/889,101  
 ; CURRENT FILING DATE: 2004-07-12  
 ; PRIOR APPLICATION NUMBER: 60/486,652  
 ; PRIOR FILING DATE: 2003-07-12  
 ; NUMBER OF SEQ ID NOS: 298  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 72  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Compound  
 US-10-889-101-72

Query Match 55.5%; Score 12.2; DB 21; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAA 19  
 || ||||| ||||| ||  
 Db 3 ATCTACAGGTAGACAA 19

RESULT 28  
 US-10-889-101-218/c  
 ; Sequence 218, Application US/10889101  
 ; Publication No. US20050107324A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bennett, C. Frank  
 ; APPLICANT: Dobie, Kenneth W.  
 ; APPLICANT: Jain, Ravi  
 ; TITLE OF INVENTION: MODULATION OF CEACAM1 EXPRESSION  
 ; FILE REFERENCE: ISIS0101-100 (RTS-0655US)  
 ; CURRENT APPLICATION NUMBER: US/10/889,101  
 ; CURRENT FILING DATE: 2004-07-12  
 ; PRIOR APPLICATION NUMBER: 60/486,652  
 ; PRIOR FILING DATE: 2003-07-12  
 ; NUMBER OF SEQ ID NOS: 298  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 218  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: H. sapiens  
 US-10-889-101-218

Query Match 55.5%; Score 12.2; DB 21; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAA 19  
 || ||||| ||||| ||  
 Db 18 ATCTACAGGTAGACAA 2

RESULT 29  
 US-10-705-715-50  
 ; Sequence 50, Application US/10705715  
 ; Publication No. US2004014742A1

; GENERAL INFORMATION:  
 ; APPLICANT: Susan Murray  
 ; APPLICANT: Jacqueline Wyatt  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF TRANSFORMING GROWTH FACTOR BETA RECEPTOR  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0158  
 ; CURRENT APPLICATION NUMBER: US/10/705,715  
 ; CURRENT FILING DATE: 2003-11-10  
 ; PRIOR APPLICATION NUMBER: US/09/888,361  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 163  
 ; SEQ ID NO 50  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-705-715-50

Query Match 55.5%; Score 12.2; DB 22; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
 || ||||| ||||| ||  
 Db 1 GTCACAGGTGAAAAATC 17

RESULT 30  
 US-10-333-429-274/c  
 ; Sequence 274, Application US/10333429  
 ; Publication No. US20040048265A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: GENSET  
 ; TITLE OF INVENTION: Obesity Associated Biallelic Marker Maps  
 ; FILE REFERENCE: G-083US02PCT  
 ; CURRENT APPLICATION NUMBER: US/10/333,429  
 ; CURRENT FILING DATE: 2003-01-17  
 ; PRIOR APPLICATION NUMBER: PCT/IB01/01477  
 ; PRIOR FILING DATE: 2001-06-28  
 ; PRIOR APPLICATION NUMBER: US 60/219,704  
 ; PRIOR FILING DATE: 2000-07-18  
 ; NUMBER OF SEQ ID NOS: 579  
 ; SOFTWARE: Patent.pm  
 ; SEQ ID NO 274  
 ; LENGTH: 21  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapiens  
 ; FEATURE:  
 ; NAME/KEY: primer\_bind  
 ; LOCATION: 1..21  
 ; OTHER INFORMATION: upstream amplification primer 99-44259 for SEQ 103,  
 US-10-333-429-274

Query Match 55.5%; Score 12.2; DB 18; Length 21;  
 Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
 || ||||| ||||| ||  
 Db 19 GTTTCAGATATAAAAAAGC 3

RESULT 31  
 US-10-751-736-831/c  
 ; Sequence 831, Application US/10751736  
 ; Publication No. US20040265230A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Martinez, Robert  
 ; APPLICANT: Brown, Eugene  
 ; APPLICANT: Liu, Wei  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON

; TITLE OF INVENTION: CANCERS  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 831  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: RNA1  
US-10-751-736-831

Query Match 55.5%; Score 12.2; DB 20; Length 21;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAA 19  
Db 17 ATGGTGCAGGTATAAAA 1

## RESULT 32

US-10-751-736-1680/c  
; Sequence 1680, Application US/10751736  
; Publication No. US20040265230A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1680  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: RNA1  
US-10-751-736-1680

Query Match 55.5%; Score 12.2; DB 20; Length 21;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAA 19  
Db 17 ATGGTGCAGGTATAAAA 1

## RESULT 33

US-10-751-736-10500  
; Sequence 10500, Application US/10751736  
; Publication No. US20040265230A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873

; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 10500  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: RNA1  
US-10-751-736-10500

Query Match 55.5%; Score 12.2; DB 20; Length 21;  
Best Local Similarity 64.7%; Pred. No. 5.1e+04;  
Matches 11; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAAGCC 22  
Db 1 UTACCGGAGAAACACC 17

## RESULT 34

US-10-751-736-15982  
; Sequence 15982, Application US/10751736  
; Publication No. US20040265230A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 15982  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-10-751-736-15982

Query Match 55.5%; Score 12.2; DB 20; Length 21;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAA 17  
Db 3 GCATGTCACGTGAAGAA 19

## RESULT 35

US-10-751-736-15983  
; Sequence 15983, Application US/10751736  
; Publication No. US20040265230A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 15983  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: RNA1  
US-10-751-736-15983



Query Match 55.5%; Score 12.2; DB 20; Length 21;  
 Best Local Similarity 70.6%; Pred. No. 5.1e+04;  
 Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAA 17  
 Db 1 GCAUGUCACUGGAAGAA 17

RESULT 36  
 US-10-751-736-40680/c  
 ; Sequence 40680, Application US/10751736  
 ; Publication No. US20040265230A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Martinez, Robert  
 ; APPLICANT: Brown, Eugene  
 ; APPLICANT: Liu, Wei  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
 ; FILE REFERENCE: AM100927 (031896-002000)  
 ; CURRENT APPLICATION NUMBER: US/10/751,736  
 ; CURRENT FILING DATE: 2003-01-06  
 ; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
 ; PRIOR FILING DATE: 2003-01-06  
 ; NUMBER OF SEQ ID NOS: 54873  
 ; SOFTWARE: Patent version 3.2  
 ; SEQ ID NO 40680  
 ; LENGTH: 21  
 ; TYPE: RNA  
 ; ORGANISM: RNAI  
 US-10-751-736-40680

Query Match 55.5%; Score 12.2; DB 20; Length 21;  
 Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAA 17  
 Db 17 GCGTGTGCAGGTAGAA 1

RESULT 37  
 US-10-349-143-9693/c  
 ; Sequence 9693, Application US/10349143  
 ; Publication No. US20040005584A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Blumenfeld, Marta  
 ; APPLICANT: Cohen, Daniel  
 ; APPLICANT: Chumakov, Ilya  
 ; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
 ; FILE REFERENCE: GENSET.020CPI  
 ; CURRENT APPLICATION NUMBER: US/10/349,143  
 ; CURRENT FILING DATE: 2003-01-21  
 ; PRIOR APPLICATION NUMBER: US/09/422,978  
 ; PRIOR FILING DATE: 1998-10-20  
 ; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850  
 ; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21  
 ; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732  
 ; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23  
 ; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614  
 ; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21  
 ; NUMBER OF SEQ ID NOS: 11796  
 ; SEQ ID NO 9693  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapiens  
 ; FEATURE:  
 ; NAME/KEY: primer\_bind  
 ; LOCATION: 1..20  
 ; OTHER INFORMATION: downstream amplification primer 99-669 for SEQ 1828, in complement  
 US-10-349-143-9693

Query Match 54.5%; Score 12; DB 17; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 6.4e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAAAG 20  
 Db 20 GTATGTCGTGAGGTATAAAG 1

RESULT 38  
 US-09-969-373-4522  
 ; Sequence 4522, Application US/09969373  
 ; Patent No. US20020133852A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Effertz, Roger J.  
 ; APPLICANT: Hauge, Brian M.  
 ; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping  
 ; FILE REFERENCE: 38-10(52679)A  
 ; CURRENT APPLICATION NUMBER: US/09/969,373  
 ; CURRENT FILING DATE: 2001-10-02  
 ; PRIOR APPLICATION NUMBER: US 09/754,853  
 ; PRIOR FILING DATE: 2001-01-05  
 ; PRIOR APPLICATION NUMBER: US 09/760,427  
 ; PRIOR FILING DATE: 2001-01-13  
 ; PRIOR APPLICATION NUMBER: US 09/855,768  
 ; PRIOR FILING DATE: 2001-05-15  
 ; NUMBER OF SEQ ID NOS: 4593  
 ; SEQ ID NO 4522  
 ; LENGTH: 19  
 ; TYPE: DNA  
 ; ORGANISM: Glycine max  
 US-09-969-373-4522

Query Match 53.6%; Score 11.8; DB 9; Length 19;  
 Best Local Similarity 86.7%; Pred. No. 7.9e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAAA 18  
 Db 3 TGTTGCAGGTACAAA 17

RESULT 39  
 US-09-969-373-4524  
 ; Sequence 4524, Application US/09969373  
 ; Patent No. US20020133852A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Effertz, Roger J.  
 ; APPLICANT: Hauge, Brian M.  
 ; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping  
 ; FILE REFERENCE: 38-10(52679)A  
 ; CURRENT APPLICATION NUMBER: US/09/969,373  
 ; CURRENT FILING DATE: 2001-10-02  
 ; PRIOR APPLICATION NUMBER: US 09/754,853  
 ; PRIOR FILING DATE: 2001-01-05  
 ; PRIOR APPLICATION NUMBER: US 09/760,427  
 ; PRIOR FILING DATE: 2001-01-13  
 ; PRIOR APPLICATION NUMBER: US 09/855,768  
 ; PRIOR FILING DATE: 2001-05-15  
 ; NUMBER OF SEQ ID NOS: 4593  
 ; SEQ ID NO 4524  
 ; LENGTH: 19  
 ; TYPE: DNA  
 ; ORGANISM: Glycine max  
 US-09-969-373-4524

Query Match 53.6%; Score 11.8; DB 9; Length 19;  
 Best Local Similarity 86.7%; Pred. No. 7.9e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAAA 18  
 Db 3 TGTTGCAGGTACAAA 17

```
RESULT 40
US-10-349-143-6072
; Sequence 6072, Application US/10349143
; Publication No. US20040005584A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CPI
; CURRENT APPLICATION NUMBER: US/10/349,143
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US/09/422,978
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 6072
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-8748 for SEQ 2138,
US-10-349-143-6072

Query Match      53.6%; Score 11.8; DB 17; Length 19;
Best Local Similarity 86.7%; Pred. NO. 7.9e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      5 GTTACAGGTGAGAAA 19
Db       1 GTTAGAGGTTGAGAAA 15
|||||
|||||
```

Search completed: August 12, 2005, 10:02:51  
Job time : 373 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 05:54:16 ; Search time 1779 Seconds  
(without alignments)  
470.722 Million cell updates/sec

Title: US-09-743-825-7

Perfect score: 22

Sequence: 1 gcattgtacaggtagaagcc 22

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 18786

Minimum DB seq length: 0

Maximum DB seq length: 22

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_hc:\*

4: gb\_est3:\*

5: gb\_est4:\*

6: gb\_est5:\*

7: gb\_est6:\*

8: gb\_gsl1:\*

9: gb\_gsl2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------|
| 1          | 13.8  | 62.7        | 22     | 8  | AZ659094    |
| 2          | 11.2  | 50.9        | 20     | 9  | TA359F10Q   |
| 3          | 11    | 50.0        | 20     | 8  | AZ452265    |
| 4          | 10.8  | 49.1        | 20     | 9  | CL681335    |
| 5          | 10.6  | 48.2        | 20     | 8  | AZ651001    |
| 6          | 10.6  | 48.2        | 20     | 9  | AZ775974    |
| 7          | 10.6  | 48.2        | 21     | 9  | CL436392    |
| 8          | 10.4  | 47.3        | 22     | 8  | AZ990555    |
| 9          | 10.2  | 46.4        | 21     | 8  | AZ649514    |
| 10         | 10    | 45.5        | 19     | 1  | A1545076    |
| 11         | 10    | 45.5        | 19     | 8  | AZ775273    |
| 12         | 10    | 45.5        | 20     | 1  | AU008116    |
| 13         | 10    | 45.5        | 20     | 8  | AZ585902    |
| 14         | 10    | 45.5        | 21     | 8  | AZ828233    |
| 15         | 10    | 45.5        | 21     | 8  | AZ828233    |
| 16         | 9.8   | 44.5        | 13     | 9  | CL437394    |
| 17         | 9.8   | 44.5        | 19     | 7  | CF316655    |
| 18         | 9.8   | 44.5        | 19     | 8  | AZ377971    |
| 19         | 9.8   | 44.5        | 19     | 8  | AZ808350    |
| 20         | 9.8   | 44.5        | 20     | 8  | AZ825409    |
| 21         | 9.8   | 44.5        | 20     | 9  | AZ799032    |
| 22         | 9.8   | 44.5        | 20     | 9  | AJ596498    |
| 23         | 9.8   | 44.5        | 21     | 8  | AZ430939    |
| 24         | 9.8   | 44.5        | 21     | 8  | AZ483078    |

|    |     |      |    |   |           |
|----|-----|------|----|---|-----------|
| 25 | 9.8 | 44.5 | 22 | 8 | AZ786362  |
| 26 | 9.6 | 43.6 | 19 | 9 | CL668834  |
| 27 | 9.6 | 43.6 | 20 | 8 | AZ396022  |
| 28 | 9.6 | 43.6 | 20 | 8 | AZ787298  |
| 29 | 9.6 | 43.6 | 21 | 9 | AG197947  |
| 30 | 9.6 | 43.6 | 21 | 9 | AG197947  |
| 31 | 9.4 | 42.7 | 19 | 8 | AZ312945  |
| 32 | 9.4 | 42.7 | 19 | 8 | AZ774536  |
| 33 | 9.4 | 42.7 | 20 | 1 | AJ796099  |
| 34 | 9.4 | 42.7 | 21 | 8 | AZ428984  |
| 35 | 9.4 | 42.7 | 22 | 8 | AZ942905  |
| 36 | 9.4 | 42.7 | 22 | 8 | TA82907Q  |
| 37 | 9.2 | 41.8 | 19 | 7 | CO780477  |
| 38 | 9.2 | 41.8 | 19 | 8 | AZ612157  |
| 39 | 9.2 | 41.8 | 19 | 8 | AZ817291  |
| 40 | 9.2 | 41.8 | 21 | 1 | AU008312  |
| 41 | 9.2 | 41.8 | 21 | 8 | AZ348213  |
| 42 | 9.2 | 41.8 | 21 | 8 | AZ760232  |
| 43 | 9.2 | 41.8 | 22 | 8 | AZ357874  |
| 44 | 9.2 | 41.8 | 22 | 8 | AZ807992  |
| 45 | 9.2 | 41.8 | 22 | 9 | AJ590809  |
| 46 | 9.2 | 41.8 | 22 | 9 | TA246F04Q |
| 47 | 9.2 | 41.8 | 22 | 9 | CL670376  |
| 48 | 9   | 40.9 | 19 | 7 | CF295672  |
| 49 | 9   | 40.9 | 19 | 7 | CF337272  |
| 50 | 9   | 40.9 | 19 | 8 | AZ865832  |
| 51 | 9   | 40.9 | 20 | 1 | AU256704  |
| 52 | 9   | 40.9 | 20 | 7 | D18242    |
| 53 | 9   | 40.9 | 20 | 8 | AZ328275  |
| 54 | 9   | 40.9 | 20 | 8 | AZ489135  |
| 55 | 9   | 40.9 | 20 | 8 | AZ499543  |
| 56 | 9   | 40.9 | 20 | 8 | AZ782333  |
| 57 | 9   | 40.9 | 22 | 8 | AZ345854  |
| 58 | 8.8 | 40.0 | 16 | 2 | AW250981  |
| 59 | 8.8 | 40.0 | 19 | 5 | BQ789814  |
| 60 | 8.8 | 40.0 | 19 | 8 | AZ328922  |
| 61 | 8.8 | 40.0 | 19 | 8 | AZ357958  |
| 62 | 8.8 | 40.0 | 19 | 8 | AZ585367  |
| 63 | 8.8 | 40.0 | 20 | 8 | AZ368917  |
| 64 | 8.8 | 40.0 | 20 | 8 | AZ462631  |
| 65 | 8.8 | 40.0 | 20 | 8 | AZ490568  |
| 66 | 8.8 | 40.0 | 21 | 5 | EX553324  |
| 67 | 8.8 | 40.0 | 21 | 8 | AZ439800  |
| 68 | 8.8 | 40.0 | 21 | 8 | AZ598000  |
| 69 | 8.8 | 40.0 | 21 | 8 | AZ765823  |
| 70 | 8.8 | 40.0 | 21 | 8 | AZ776420  |
| 71 | 8.8 | 40.0 | 22 | 6 | CD529328  |
| 72 | 8.8 | 40.0 | 22 | 8 | AZ345846  |
| 73 | 8.8 | 40.0 | 22 | 8 | AZ392578  |
| 74 | 8.8 | 40.0 | 22 | 8 | AZ501345  |
| 75 | 8.8 | 40.0 | 22 | 8 | AZ610074  |
| 76 | 8.8 | 40.0 | 22 | 8 | AZ819251  |
| 77 | 8.8 | 40.0 | 22 | 8 | AZ990555  |
| 78 | 8.6 | 39.1 | 17 | 6 | C21103    |
| 79 | 8.6 | 39.1 | 19 | 8 | AZ581163  |
| 80 | 8.6 | 39.1 | 19 | 8 | AZ623493  |
| 81 | 8.6 | 39.1 | 20 | 8 | AZ308068  |
| 82 | 8.6 | 39.1 | 20 | 8 | AZ407675  |
| 83 | 8.6 | 39.1 | 20 | 8 | AZ772089  |
| 84 | 8.6 | 39.1 | 21 | 1 | AU257209  |
| 85 | 8.6 | 39.1 | 21 | 8 | AZ402083  |
| 86 | 8.6 | 39.1 | 21 | 8 | AZ514444  |
| 87 | 8.6 | 39.1 | 22 | 1 | A1219622  |
| 88 | 8.6 | 39.1 | 22 | 7 | CF314827  |
| 89 | 8.6 | 39.1 | 22 | 8 | AZ483608  |
| 90 | 8.6 | 39.1 | 22 | 8 | AZ824702  |
| 91 | 8.6 | 39.1 | 22 | 9 | AZ979907  |
| 92 | 8.4 | 38.2 | 15 | 9 | AJ589581  |
| 93 | 8.4 | 38.2 | 15 | 9 | AJ591909  |
| 94 | 8.4 | 38.2 | 16 | 9 | CL683179  |
| 95 | 8.4 | 38.2 | 19 | 8 | AZ397615  |
| 96 | 8.4 | 38.2 | 19 | 8 | AZ597767  |
| 97 | 8.4 | 38.2 | 19 | 8 | AZ782384  |

c 98 8.4 38.2 19 8 A2788165 A2788165 2M0035P02  
 c 99 8.4 38.2 20 1 AU254575 AU254575  
 c 100 8.4 38.2 20 8 A2331643 1M0059P12

## ALIGNMENTS

RESULT 1  
 LOCUS A2659094  
 DEFINITION 1M0536E16F Mouse 10kb plasmid UUC1M library Mus musculus genomic clone UUC1M0536E16 F, genomic survey sequence.

ACCESSION A2659094  
 VERSION A2659094.1 GI:11796240  
 KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 22)  
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts

## JOURNAL

COMMENT Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: dunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0536 row: E column: 16

Seq primer: GTTGTAAACGACGGCCAGT

Class: plasmid ends

High quality sequence stop: 22.

## FEATURES

source

1..22

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUC1M0536E16"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adapted DNA was purified and size-selected for a 9.5 to

10.5 kb range using preparative agarose gel

electrophoresis. Vector DNA was prepared from a derivative

of PWD42 (gi|4732114|gb|AF129072.1), a copy-number

inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and

purified. The sheared, adapted mouse DNA was annealed to

adapted vector DNA, and transformed into

chemically-competent E. coli XL10-Gold (Stratagene) cells

and selected for ampicillin resistance."

## ORIGIN

Query Match 62.7%; Score 13.8; DB 8; Length 22;

Best Local Similarity 88.2%; Pred. No. 5.3e+04;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAA 19

|||||

Db 6 ATGATACAGGTAGTAAA 22

## RESULT 2

TA359F10Q/c

LOCUS TA359F10Q

DEFINITION T. brucei sheared genomic DNA clone 359f10, reverse sequence,  
 genomic survey sequence.

ACCESSION AL495341

VERSION AL495341.1 GI:11871728

KEYWORDS GSS.

SOURCE Trypanosoma brucei

ORGANISM Trypanosoma brucei

Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;

Trypanosoma.

1 (bases 1 to 20)

REFERENCE Hall, N., Bowman, S., Lennard, N. J., Doggett, J., Atkin, R.,

Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L.,

Melville, S. E., Rajandream, M. A. and Barrell, B. G.

Direct Submission

Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing

project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,

Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and

nl@sanger.ac.uk

COMMENT Constructed at the Institute for Genomic Research (TIGR),

Rockville, MD. Genomic DNA isolated from a cloned population of

Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared

to give a tight size distribution (

4 kb). The v + i method used for the library construction is

described in detail in Smith, H. and Venter, J. C. (Making small

insert libraries for whole genome shotgun sequencing projects. In

Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.

Barrell, Oxford University Press, 1999).

Email: nelsayed@tigr.org

Details of T. brucei sequencing at the Sanger Centre are available

at http://www.sanger.ac.uk/Projects/T\_brucei/.

Location/Qualifiers

1..20

/organism="Trypanosoma brucei"

/mol\_type="genomic DNA"

/strain="TREU927"

/db\_xref="taxon:5691"

/clone="359f10"

## ORIGIN

Query Match 50.9%; Score 11.2; DB 9; Length 20;

Best Local Similarity 81.2%; Pred. No. 9.5e+05;

Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAAAGC 21

|||||

Db 19 TCACAGGCACAAAAGC 4

## RESULT 3

LOCUS AZ452265/c

DEFINITION 1M0252H06F Mouse 10kb plasmid UUC1M library Mus musculus genomic clone UUC1M0252H06 F, genomic survey sequence.

ACCESSION AZ452265

VERSION AZ452265.1 GI:10608897

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 20)

REFERENCE Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,

AUTHORS

Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunne@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0252 row: H column: 06  
 Seq primer: CGTGTAAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 20.  
 Location/Qualifiers  
 FEATURES  
 source  
 1..20  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clones="UUGC1M0252H06"  
 /sex="Male"  
 /lab\_hosts="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 polynuclease and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 [gi|4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."  
 ORIGIN  
 Query Match 50.0%; Score 11; DB 8; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+06;  
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 8 ACAGGTAGAAA 18  
 |||||  
 Db 13 ACAGGTAGAAA 3  
 CL681335 20 bp DNA linear GSS 09-JUL-2004  
 CL681335 PRI0130d\_E07\_2 - PRI0130d.BR (20) Note: Recurring String Mixed stage fosmid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.  
 DEFINITION  
 CL681335  
 CL681335.1 GI:50188343  
 GSS.  
 Pristionchus pacificus  
 Pristionchus pacificus  
 Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida; Neodiplogasteridae; Pristionchus.  
 1 (bases 1 to 20)  
 Srinivasan, J., Otto, G.W., Kahlow, U., Geisler, R. and Sommer, R.J.  
 AppaDB: an AcedB database for the nematode satellite organism Pristionchus pacificus  
 Nucleic Acids Res. 32 (1), D421-D422 (2004)  
 Contact: Sommer RJ  
 Evolutionary Biology  
 Max-Planck-Institute for Developmental Biology  
 Spemannstr. 37-39, Tuebingen D-72076, Germany  
 Tel: 00497071601371  
 Fax: 00497071601498  
 Email: ralf.sommer@tuebingen.mpg.de  
 This library was generated at Caltech, Pasadena, USA and end sequenced at Vancouver, Canada.  
 Seq primer: T7  
 Class: fosmid ends.  
 Location/Qualifiers  
 FEATURES  
 source  
 1..20  
 /organism="Pristionchus pacificus"  
 /mol\_type="genomic DNA"  
 /strain="California"  
 /db\_xref="taxon:54126"  
 /clone\_lib="Mixed stage fosmid library of P. pacificus var. California"  
 /note="Vector: pEpifos-5 Fosmid vector"  
 ORIGIN  
 Query Match 49.1%; Score 10.8; DB 9; Length 20;  
 Best Local Similarity 85.7%; Pred. No. 1.5e+06;  
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 4 TGTTCACGGTAGAA 17  
 |||||  
 Db 7 TGTGACACGTAGAA 20  
 AZ651001 22 bp DNA linear GSS 14-DEC-2000  
 1M0521O23F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0521O23 F, genomic survey sequence.  
 DEFINITION  
 AZ651001  
 AZ651001 GI:11786054  
 GSS.  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 22)  
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunne@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0521 row: O column: 23  
 Seq primer: CGTGTAAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 22.  
 Location/Qualifiers  
 FEATURES  
 source  
 1..22  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"



/cell type="Embryonic stem cell"  
 /cell\_line="D3H (J1 subclone)"  
 /clone\_lib="MICB1"  
 /note="Vector: U3NeoSV1"

## ORIGIN

Query Match 48.2%; Score 10.6; DB 9; Length 21;  
 Best Local Similarity 76.5%; Pred. No. 1.9e+06;  
 Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 Qy 2 CATGTTACAGGTAGAAA 18  
 ||||| | |||||  
 Db 1 CATGCTCTAGTAGAAA 17

## RESULT 8

AZ990555/c  
 LOCUS 22 bp DNA linear GSS 27-APR-2001  
 DEFINITION 2M0274N14F Mouse 10kb plasmid UUGC2M library Mus musculus genomic  
 clone UUGC2M0274N14 F, genomic survey sequence.

ACCESSION AZ990555  
 VERSION AZ990555.1 GI:13861782  
 KEYWORDS GSS.  
 SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
 1 (bases 1 to 22)

## REFERENCE

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Irlam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts

## JOURNAL

COMMENT Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177

Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0274 row: N column: 14

Seq primer: CGTTGTAACGACGCCAGT  
 Class: plasmid ends

High quality sequence stop: 22.  
 Location/Qualifiers

## FEATURES

source

1..22  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0274N14"  
 /sex="female"

/lab\_host="E. coli strain XL10-Gold, Tl-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC2M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (female) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and

## ORIGIN

Query Match 47.3%; Score 10.4; DB 8; Length 22;  
 Best Local Similarity 91.7%; Pred. No. 2.3e+06;  
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 7 TACAGGTAGAAA 18  
 | ||||| |||||  
 Db 13 TGCAGGTAGAAA 2

## RESULT 9

AZ649514/c

LOCUS 21 bp DNA linear GSS 14-DEC-2000

DEFINITION 1M0519A09F Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
 clone UUGC1M0519A09 F, genomic survey sequence.

ACCESSION AZ649514

VERSION AZ649514.1 GI:11783070

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
 1 (bases 1 to 21)

## REFERENCE

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Irlam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts

## JOURNAL

COMMENT Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177

Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0519 row: A column: 09

Seq primer: CGTTGTAACGACGCCAGT  
 Class: plasmid ends

High quality sequence stop: 21.  
 Location/Qualifiers

## FEATURES

source

1..21  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0519A09"  
 /sex="Male"

/lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and

purified. The sheared, adapted mouse DNA was annealed to  
 adapted vector DNA, and transformed into  
 chemically-competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 46.4%; Score 10.2; DB 8; Length 21;  
Best Local Similarity 80.0%; Pred. No. 2.9e+06;

Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAAG 20

Db 16 TTGCAGGTATTAAAG 2

## RESULT 10

AI545076

## LOCUS

DEFINITION 19 bp mRNA linear EST 07-JUN-2001  
fb70d07.v1 Zebrafish Washu MPIMG EST Danio rerio cDNA clone  
IMAGE:3717229 5' similar to TR:023327 023327 HYPOTHETICAL 108.0 KD

PROTEIN. ; mRNA sequence.

ACCESSION AI545076

VERSION AI545076.1 GI:4462449

KEYWORDS EST.

## SOURCE

Danio rerio (zebrafish)

## ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Ostariophysi;

Cypriniformes; Cyprinidae; Danio.

## REFERENCE

1 (bases 1 to 19)

Clark M., Johnson S.L., Lebrach H., Lee R., Li F., Marra M.,

Eddy S., Hillier L., Kucaba T., Martin J., Beck C., Wylie T.,

Underwood K., Stepcos M., Theising B., Allen M., Bowers Y.,

Person B., Swaller T., Gibbons M., Pape D., Harvey N., Schurk R.,

Ritter E., Kohn S., Shin T., Jackson Y., Cardenas M., McCann R.,

Waterston R. and Wilson R.

Washu Zebrafish EST Project 1998

## TITLE

Unpublished (1998)

## JOURNAL

Contact: Stephen L. Johnson

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA

Tel: 314 286 1800

Fax: 314 286 1810

Email: zbrafish@wustl.edu

cDNA Library Preparation: Matthew Clark. cDNA Library Arrayed by:

Matthew Clark. DNA Sequencing by: Washington University Genome

Sequencing Center Clone Distribution: Genome Systems, St. Louis,

Missouri (web address: www.genomesystems.com) (email contact:

info@genomesystems.com) and Research Genetics, Huntsville, Alabama

(web address: www.resgen.com) (email contact: info@resgen.com) and

ReSourceCenter/PrimarDatenbank, Berlin, Germany (web address:

www.rzpd.de)

Trace considered overall poor quality

Possible reversed clone: similarity on wrong strand

Seg primer: T3 ET from Amersham

High quality sequence stop: 1

PolyA-No.

## FEATURES

Location/Qualifiers

1..19

/organism="Danio rerio"

/mol\_type="mRNA"

/db\_xref="taxon:7955"

/clone="IMAGE:3717229"

/sex="mixed"

/tissue type="26 somite embryos, adult livers, shield

stage embryos"

/lab host="XLI-blue MRF"

/clone lib="Zebrafish Washu MPIMG EST"

/note="Vector: pSPOR1; Site\_1: NotI; Site\_2: SalI; 1st

strand cDNA was primed with a Not I - oligo(dT)15 primer

[5'-pGACTAGTCTAGATCGAGCGGCCCGCTTTTCTTTT3'];

double-stranded cDNA was ligated to Sal I adaptors (BRL),

digested with Not I and cloned into the Not I and Sal I

sites of the pSPORT1 vector (BRL). Library was constructed by Matthew Clark (Lehrach lab; ICRF, London and Max Planck Institut fuer Molekulare Genetik, Berlin). cDNAs for EST analysis were selected following oligonucleotide hybridization fingerprinting of arrayed clones from zebrafish late somitogenesis (26 ss), adult liver or embryonic shield stage (5.6 h) libraries. Fingerprint data were used to computationally cluster cDNAs, and a single cDNA from each cluster was chosen for sequencing. In some cases multiple members of the same cluster were sequenced to assess clustering parameters or single clones were sequenced additional times to assess quality control."

## ORIGIN

Query Match 45.5%; Score 10; DB 1; Length 19;

Best Local Similarity 72.2%; Pred. No. 3.6e+06;

Matches 13; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAAA 18

Db 2 GCATGTTACATGGATGAA 19

## RESULT 11

AZ775273/c

## LOCUS

DEFINITION 19 bp DNA linear GSS 16-FEB-2001  
2M0007F04R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC2M0007F04 R, genomic survey sequence.

ACCESSION AZ775273

VERSION AZ775273.1 GI:12901587

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 19)

Dunn D., Aoyagi A., Barber M., Beacorn T., Duval B., Hamil C.,

Islam H., Longacre S., Mahmoud M., Meenen E., Pedersen T.,

Kelly M., Rose M., Rose R., Stokes R., Tingey A., von

Niederhausen A. and Wright D., Weiss R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0007 row: F column: 04

Seq primer: CACACAGGAAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 19.

Location/Qualifiers

1..19

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC2M0007F04"

/sex="Male"

/lab host="E. Coli strain XL10-Gold, Tl-resistant, F-"

/clone lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA







```

RESULT 16
LOCUS CL437394 13 bp DNA linear GSS 18-MAR-2004
DEFINITION PST5288-NL.Seq MICB1 Mus musculus genomic clone PST5288-NL.Seq.
ACCESSION CL437394
VERSION CL437394.1 GI:45573060
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 13)
AUTHORS Hicks,G.G.
TITLE www.Escells.ca
JOURNAL Unpublished (2002)
COMMENT Contact: Hicks GG
Mammalian Functional Genomics Centre
Manitoba Institute of Cell Biology, University of Manitoba
ON5029, 675 McDermot Ave, Winnipeg, MB R3E 0V9, Canada
Tel: 204 787 2133
Fax: 204 787 2190
Email: hicksgg@cc.umanitoba.ca
U3NeosV1 gene trap. Tag generated by plasmid rescue. Additional
sequence information and target gene cloning can be generated. ES
cell line harboring insertion mutation of target gene is available.
Sequence analysis available from
http://140.193.242.7/esdb/public_search_frame.php?PST=PST5288-NL.Se
q
Class: Gene Trap.
Location/Qualifiers
1. 13
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="129 sv"
/db_xref="taxon:10090"
/clone="PST5288-NL.Seq"
/sex="Male"
/cell_type="Embryonic stem cell"
/cell_lines="D3H (J1 subclone)"
/clone_lib="MTCB1"
/note="Vector: U3NeosV1"

ORIGIN
Query Match 44.5%; Score 9.8; DB 9; Length 13;
Best Local Similarity 84.6%; Pred. No. 4.2e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CATGTTACAGGTA 14
|||||
Db 1 CATGTTAAAGTA 13

RESULT 17
LOCUS CF316655 19 bp mRNA linear EST 15-AUG-2003
DEFINITION HD--06-A14.g1 OshDAC1-overexpressing transgenic rice plasmid cDNA
library (HD) Oryza sativa (japonica cultivar-group) cDNA clone
HD--06-A14, mRNA sequence.
ACCESSION CF316655
VERSION CF316655.1 GI:33688416
KEYWORDS EST.
SOURCE Oryza sativa (japonica cultivar-group)
ORGANISM Oryza sativa (japonica cultivar-group)
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzaceae; Oryza.
REFERENCE 1 (bases 1 to 19)
AUTHORS Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.
TITLE Large-scale Sequencing Analysis of Rice ESTs
JOURNAL Unpublished (2003)
COMMENT Contact: Nahm B.H.

FEATURES
source
1. 19
/organism="Oryza sativa (japonica cultivar-group)"
/mol_type="mRNA"
/cultivar="Nackdong"
/db_xref="taxon:39947"
/clone="HD--06-A14"
/tissue_type="callus"
/dev_stage="proliferated callus on 2N6 media for 2 weeks"
/lab_host="E.coli DH10B"
/clone_lib="OshDAC1-overexpressing transgenic rice plasmid
cDNA library (HD)"
/note="Vector: PCR4-TOPO; Site_1: EcoRI; Callus was
treated with ABA(20um) for 1hr. Oligo-capped mRNA was
reverse transcribed and then used for PCR. mRNA was
derived from rice Histone Deacetylase overexpression
line."

ORIGIN
Query Match 44.5%; Score 9.8; DB 7; Length 19;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAG 20
|||||
Db 13 ACAGGAATAAAG 1

RESULT 18
LOCUS AZ377971 19 bp DNA linear GSS 02-OCT-2000
DEFINITION IM0132103R Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGCIM0132103 R, genomic survey sequence.
ACCESSION AZ377971
VERSION AZ377971.1 GI:10491671
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 19)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Ielam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0132 row: I column: 03
Seq primer: CACACGAAACAGCTAGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1. 19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"

FEATURES
source
1. 19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"

```

Genomics and Genetics Institute, GreenGene Biotech Inc.; Division  
of Bioscience and Bioinformatics, Myongji University  
Yongin, Kyeonggi, Korea  
Tel: 82 31 330 6193  
Fax: 82 31 321 6355  
Email: bnhahm@gbio.com, bnhahm@bio.myongji.ac.kr.

#### FEATURES

source

1. 19  
/organism="Oryza sativa (japonica cultivar-group)"  
/mol\_type="mRNA"  
/cultivar="Nackdong"  
/db\_xref="taxon:39947"  
/clone="HD--06-A14"  
/tissue\_type="callus"  
/dev\_stage="proliferated callus on 2N6 media for 2 weeks"  
/lab\_host="E.coli DH10B"  
/clone\_lib="OshDAC1-overexpressing transgenic rice plasmid  
cDNA library (HD)"  
/note="Vector: PCR4-TOPO; Site\_1: EcoRI; Callus was  
treated with ABA(20um) for 1hr. Oligo-capped mRNA was  
reverse transcribed and then used for PCR. mRNA was  
derived from rice Histone Deacetylase overexpression  
line."

#### ORIGIN

Query Match 44.5%; Score 9.8; DB 7; Length 19;  
Best Local Similarity 84.6%; Pred. No. 4.5e+06;  
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAG 20

|||||  
Db 13 ACAGGAATAAAG 1

#### RESULT 18

LOCUS AZ377971/c

DEFINITION

IM0132103R Mouse 10kb plasmid UUGCIM library Mus musculus genomic

clone UUGCIM0132103 R, genomic survey sequence.

ACCESSION AZ377971

VERSION AZ377971.1 GI:10491671

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 19)

AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,

Ielam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,

Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von

Niederhausern,A. and Wright,D.,Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0132 row: I column: 03

Seq primer: CACACGAAACAGCTAGACC

Class: plasmid ends

High quality sequence stop: 19.

Location/Qualifiers

1. 19

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

FEATURES

source

1. 19

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

```

/clone="UUGC1M0132103"
/sex="Male"
/lab_hosts="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (G14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

## ORIGIN

```

Query Match      44.5%; Score 9.8; DB 8; Length 19;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAG 15
    ||||| |||||
Db 18 ATGTTGATGTAG 6

```

```

RESULT 19
AZ808350
LOCUS
DEFINITION
2M0071P14R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0071P14 R, genomic survey sequence.

```

```

ACCESSION
AZ808350
VERSION
AZ808350.1 GI:12973606
KEYWORDS
GSS.
SOURCE
Mus musculus (house mouse)

```

```

ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)

```

```

REFERENCE
AUTHORS
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.

```

```

TITLE
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

```

```

JOURNAL
COMMENT
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0071 row: P column: 14
Seq primer: CACACAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.

```

## FEATURES

```

Location/Qualifiers
1..19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"

```

```

/clone="UUGC2M0071P14"
/sex="Male"
/lab_hosts="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (G14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

## ORIGIN

```

Query Match      44.5%; Score 9.8; DB 8; Length 19;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAA 19
    ||||| |||||
Db 3 TACACATAGAAAA 15

```

```

RESULT 20
AZ625409/c
LOCUS
DEFINITION
1M0464C20R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0464C20 R, genomic survey sequence.

```

```

ACCESSION
AZ625409
VERSION
AZ625409.1 GI:11747599
KEYWORDS
GSS.
SOURCE
Mus musculus (house mouse)

```

```

ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 20)

```

```

REFERENCE
AUTHORS
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.

```

```

TITLE
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

```

```

JOURNAL
COMMENT
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0464 row: C column: 20
Seq primer: CACACAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 20.

```

## FEATURES

```

Location/Qualifiers
1..20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"

```

```

/clone="UUGC1M0464C20"
/lab host="E. Coli strain XL10-Gold, T1-resistant, F-"
/sex="Male"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (GII4732114|GB|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

## ORIGIN

```

Query Match 44.5%; Score 9.8; DB 8; Length 20;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 1 GCATGTTACAGGT 13
    ||||| |||||
Db 13 GCATGGTACTGGT 1

```

## RESULT 21

```

AZ799032/c
LOCUS
DEFINITION
2M0056K07F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0056K07 F, genomic survey sequence.

```

```

ACCESSION
AZ799032
VERSION
AZ799032.1 GI:12949733
SOURCE
Mus musculus (house mouse)

```

## ORGANISM

```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 20)

```

```

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weise,R.

```

```

Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

```

## JOURNAL

```

COMMENT
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177

```

```

Email: ddunn@genetics.utah.edu

```

```

Insert Length: 10000 Std Error: 0.00

```

```

Plate: 0056 row: K column: 07

```

```

Seq primer: CGTTGTAACACGCGCCAGT

```

```

Class: plasmid ends

```

```

High quality sequence stop: 20.

```

## FEATURES

```

Location/Qualifiers
1..20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strains="C57BL/6J"
/db_xref="taxon:10090"

```

```

/clone="UUGC2M0056K07"
/lab host="E. Coli strain XL10-Gold, T1-resistant, F-"
/sex="Male"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (GII4732114|GB|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

## ORIGIN

```

Query Match 44.5%; Score 9.8; DB 8; Length 20;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 9 CAGGTAGAAAAGC 21
    ||||| |||||
Db 14 CAGGCAGAAAAC 2

```

## RESULT 22

```

AJ596498/c
LOCUS
DEFINITION
Arabidopsis thaliana T-DNA flanking sequence, left border, clone
435B03, genomic survey sequence.

```

```

ACCESSION
AJ596498
VERSION
AJ596498.1 GI:37946126

```

```

KEYWORDS
GSS; left border; T-DNA flanking sequence.

```

## SOURCE

```

Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsi.
1

```

## REFERENCE

```

AUTHORS
Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F.,
Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
Lepiniec,L., Caboche,M. and Lecharny,A.

```

```

T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites

```

```

EMBO Rep. 3 (12), 1152-1157 (2002)

```

## JOURNAL

## MEDLINE

## PUBMED

## REFERENCE

## AUTHORS

## TITLE

## JOURNAL

## COMMENT

```

Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE
PCR was performed on DNA from transformants of Arabidopsis thaliana
plants from INRA (Versailles). The DNA fragment(s) resulting from
the PCR were directly sequenced from the left or the right border
to determine the genomic sequence flanking the insertion. T-DNA
derived sequences were removed. Information to order the
corresponding mutant line and a link to a database providing a
graphical display of the insertion site are available at
http://dbsgap-versailles.inra.fr/publiclines/. This sequence has
been generated in the framework of the French plant genomics
program "Genoplatane" (http://www.genoplatane.com and
http://genoplatane-info.infobiogen.fr).
Location/Qualifiers

```

```

source
1. .20
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/cultivar="Wassiliewskija"
/db_xref="taxon:3702"
/clone="435B03"
/clone_lib="Arabidopsis thaliana T-DNA insertion lines"
misc_feature
1. .20
/note="T-DNA flanking sequence
left border"

ORIGIN
Query Match 44.5%; Score 9.8; DB 9; Length 20;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAA 19
| | | | | | | | | |
Db 16 TTCAGGTATAAAA 4

RESULT 23
AZ430939
LOCUS
DEFINITION
AZ430939 21 bp DNA linear GSS 03-OCT-2000
clone UUGC1M0215E12 R, genomic survey sequence.
ACCESSION
AZ430939
VERSION
AZ430939.1 GI:10554952
KEYWORDS
GSS.
SOURCE
Mus musculus (house mouse)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 21)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0215 row: E column: 12
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 21.
Location/Qualifiers
1. .21
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0215E12"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The

source
1. .20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
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/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The

adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (G14732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

```

adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 44.5%; Score 9.8; DB 8; Length 21;  
Best Local Similarity 84.6%; Pred. No. 4.5e+06;  
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAAGC 21  
|||||  
Db 5 CATGTAATAAAGC 17

## RESULT 25

AZ786362 22 bp DNA linear GSS 16-FEB-2001  
LOCUS 2M0031N16R Mouse 10kb plasmid UUC1M library Mus musculus genomic  
DEFINITION clone UUC2M0031N16 R, genomic survey sequence.

ACCESSION AZ786362  
VERSION AZ786362.1 GI:12924044

## KEYWORDS

SOURCE GSS.

ORGANISM Mus musculus (house mouse)

REFERENCE Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

## AUTHORS

1 (bases 1 to 22)  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.

Muscle whole genome scaffolding with paired end reads from 10kb plasmid inserts

## JOURNAL

COMMENT Unpublished (2000)

Contact: Robert B. Weiss

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0031 row: N column: 16

Seq primer: CACACAGGAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 22.

## FEATURES

source

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/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUC2M0031N16"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 44.5%; Score 9.8; DB 8; Length 22;  
Best Local Similarity 84.6%; Pred. No. 4.6e+06;  
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAA 19  
|||||  
Db 6 TACCGGTAAAAA 18

## RESULT 26

CL668834 19 bp DNA linear GSS 09-JUL-2004  
LOCUS PRI0158d\_C09 - PRI0158d.B21 (19) Note: Recurring String Mixed stage  
DEFINITION fosmid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.

ACCESSION CL668834

VERSION CL668834.1 GI:50164652

## KEYWORDS

SOURCE GSS.

ORGANISM Pristionchus pacificus

Pristionchus pacificus

Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;

Neodiplogasteridae; Pristionchus.

1 (bases 1 to 19)

Srinivasan, J., Otto, G.W., Kahlow, U., Geisler, R. and Sommer, R.J.

AppADB: an AcedB database for the nematode satellite organism

Pristionchus pacificus

Nucleic Acids Res. 32 (1), D421-D422 (2004)

Contact: Sommer RJ

Evolutionary Biology

Max-Planck-Institute for Developmental Biology

Spemannstr. 37-39, Tuebingen D-72076, Germany

Tel: 00497071601371

Fax: 00497071601498

Email: ralf.sommer@tuebingen.mpg.de

This library was generated at Caltech, Pasadena, USA and end

sequenced at Vancouver, Canada.

Seq primer: T7

Class: fosmid ends.

Location/Qualifiers

1..19

/organism="Pristionchus pacificus"

/mol\_type="genomic DNA"

/strain="California"

/db\_xref="taxon:54126"

/clone\_lib="Mixed stage fosmid library of P. pacificus

var. California"

/note="Vector: pEpifos-5 Fosmid vector"

## ORIGIN

Query Match 43.6%; Score 9.6; DB 9; Length 19;  
Best Local Similarity 75.0%; Pred. No. 5.6e+06;  
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAAGC 21  
|||||  
Db 4 TTAAGGTAGAACGCGC 19

## RESULT 27

AZ396022

LOCUS

20 bp DNA linear GSS 03-OCT-2000

DEFINITION 1M0160J20F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0160J20 F, genomic survey sequence.

ACCESSION AZ396022

VERSION AZ396022.1 GI:10511094

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 20)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0160 row: J column: 20  
Seq primer: CGTTGTAACGACGCGCAGT  
Class: plasmid ends  
High quality sequence stop: 20.

## FEATURES

Location/Qualifiers

1..20

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC1M0160J20"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57Bl/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 43.6%; Score 9.6; DB 8; Length 20;  
Best Local Similarity 75.0%; Pred. No. 5.6e+06;  
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Oy 3 ATGTTACAGGTAGAAA 18  
|||||  
Db 5 ATGTTACATCTGAAA 20  
|||||

RESULT 28  
AZ787298

LOCUS CL687844 20 bp DNA linear GSS 16-FEB-2001

DEFINITION 2M0030I016F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0030I016 F, genomic survey sequence.

ACCESSION AZ787298

VERSION AZ787298.1 GI:12925926

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 20)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0033 row: O column: 16  
Seq primer: CGTTGTAACGACGCGCAGT  
Class: plasmid ends  
High quality sequence stop: 20.

## FEATURES

Location/Qualifiers

1..20

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC2M0030I016"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57Bl/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 43.6%; Score 9.6; DB 8; Length 20;  
Best Local Similarity 75.0%; Pred. No. 5.6e+06;  
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Oy 6 TTACAGGTAGAAAAGC 21  
|||||  
Db 2 TTACAGCATGATAGC 17  
|||||

RESULT 29  
CL687844/c

LOCUS CL687844 20 bp DNA linear GSS 09-JUL-2004



```

DEFINITION PR10147d G03.2 - PR10147d.BR (20) Mixed stage fosmid library of P.
pacificus var. California Pristionchus pacificus genomic, genomic
survey sequence.
ACCESSION CL687844.1 GI:50196717
VERSION CL687844.1
KEYWORDS GSS.
SOURCE Pristionchus pacificus
ORGANISM Pristionchus pacificus
          Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;
          Neodiplogasteridae; Pristionchus.
REFERENCE 1 (bases 1 to 20)
AUTHORS Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.
TITLE AppaDB: an AcedB database for the nematode satellite organism
Pristionchus pacificus
JOURNAL Nucleic Acids Res. 32 (1), D421-D422 (2004)
COMMENT Contact: Sommer RJ
          Evolutionary Biology
          Max-Planck-Institute for Developmental Biology
          Spemannstr. 37-39, Tuebingen D-72076, Germany
          Tel: 00497071601371
          Fax: 00497071601498
          Email: ralf.sommer@uebingen.mpg.de
          This library was generated at Caltech, Pasadena, USA and end
          sequenced at Vancouver, Canada.
          Seq primer: T7
          Class: fosmid ends.
          Location/Qualifiers
            1..20
              /organism="Pristionchus pacificus"
              /mol_type="genomic DNA"
              /strain="California"
              /db_xref="taxon:54126"
              /clone_lib="Mixed stage fosmid library of P. pacificus
              var. California"
              /note="Vector: pBpifos-5 Fosmid vector"
ORIGIN
  Query Match 43.6%; Score 9.6; DB 9; Length 20;
  Best Local Similarity 75.0%; Pred. No. 5.6e+06;
  Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAA 18
   |||||
Db 20 AGGTAAGAGGAGAA 5

RESULT 30
AG197947/c
LOCUS AG197947
DEFINITION Pan troglodytes DNA, clone: RP43-078H02.T7, genomic survey
sequence.
ACCESSION AG197947
VERSION AG197947.1 GI:45230123
KEYWORDS GSS.
SOURCE Pan troglodytes (chimpanzee)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.
REFERENCE 1
  Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J.,
  Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.
  BAC end sequences of Library RP-43
  Unpublished
  2 (bases 1 to 21)
  Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J.,
  Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.
  Direct Submission
  Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of
  Bioscience and Biotechnology (KRIIB), Genome Research Center (GRC);
  52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea
  (E-mail: redstone@mail.kribb.re.kr, URL:http://phs.grc.kribb.re.kr/,
  Tel:82-42-866-7181, Fax:82-42-860-4409)
  Clones are derived from the chimpanzee BAC library RP-43 This BAC
  COMMENT

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end was generated during the R&D process and may have higher chance
of clone tracking errors.
PRIMERS
  Sequencing: T7
LIBRARY
  Vector : pBACe3.6
  R.Site 1 : EcoRI
  R.Site 2 : EcoRI.
  Location/Qualifiers
    1..21
      /organism="Pan troglodytes"
      /mol_type="genomic DNA"
      /db_xref="taxon:9598"
      /clone="RP43-078H02.T7"
      /sex="male"
      /cell_type="lymphocytes"
      /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN
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  Best Local Similarity 75.0%; Pred. No. 5.7e+06;
  Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAGCC 22
   |||||
Db 21 TAGAGGTAGGCAATC 6

RESULT 31
AG312945/c
LOCUS AG312945
DEFINITION 190029P03F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0029P03 F, genomic survey sequence.
ACCESSION AG312945
VERSION AG312945.1 GI:10357381
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 19)
  Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
  Islam,H., Longacre,S., Mahmoud,M., Meenen,B., Pedersen,T.,
  Reilly,M., Longacre,S., Rose,R., Stokes,R., Tingey,A., von
  Niederhausern,A. and Wright,D.,Weisse,R.
  Mouse whole genome scaffolding with paired end reads from 10kb
  plasmid inserts
  Unpublished (2000)
  Contact: Robert B. Weiss
  University of Utah Genome Center
  Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
  84112, USA
  Tel: 801 585 5606
  Fax: 801 585 7177
  Email: ddunn@genetics.utah.edu
  Insert Length: 10000 Std Error: 0.00
  Plate: 0029 row: P column: 03
  Seq primer: CGTGTAAACGACGGCCAGT
  Class: plasmid ends
  High quality sequence stop: 19.
  Location/Qualifiers
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      /mol_type="genomic DNA"
      /strain="C57BL/6J"
      /db_xref="taxon:10090"
      /clone="UUGC1M0029P03"
      /sex="Male"
      /lab_host="E. Coli strain XL10-Gold, T1-resistant, P-"
      /clone_lib="Mouse 10kb plasmid UUGC1M library"
      /note="Vector: PWD42nv; Purified genomic DNA from M.
      musculus C57BL/6J (male) was obtained from the Jackson

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clone UUGC1M0212P03 R, genomic survey sequence.

ACCESSION  
AZ428984  
VERSION  
AZ428984.1 GI:10552913  
KEYWORDS  
GSS.  
SOURCE  
Mus musculus (house mouse)  
ORGANISM  
Mus musculus  
REFERENCE  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 21)  
AUTHORS  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,  
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von  
Niederhauser,A. and Wright,D.,Weiss,R.  
TITLE  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
JOURNAL  
Unpublished (2000)  
COMMENT  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0212 row: P column: 03  
Seq primer: CACACAGGAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 21.  
FEATURES  
Location/Qualifiers  
1..21  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0212P03"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

# ORIGIN

Query Match 42.7%; Score 9.4; DB 8; Length 21;  
Best Local Similarity 68.4%; Pred. No. 7,1e+06;  
Matches 13; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 2 CATGTTACAGGTAGAAAAG 20  
||| ||| ||| ||| |||  
Db 21 CATATTTCCAGTCATAAAG 3

RESULT 35  
AZ942905/c  
LOCUS  
DEFINITION 2M0203K13F Mouse 10kb plasmid UUGC2M library GSS 26-APR-2001  
22 bp DNA linear GSS 26-APR-2001

clone UUGC2M0203K13 F, genomic survey sequence.

ACCESSION  
AZ942905  
VERSION  
AZ942905.1 GI:13806556  
KEYWORDS  
GSS.  
SOURCE  
Mus musculus (house mouse)  
ORGANISM  
Mus musculus  
REFERENCE  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 22)  
AUTHORS  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,  
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von  
Niederhauser,A. and Wright,D.,Weiss,R.  
TITLE  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
JOURNAL  
Unpublished (2000)  
COMMENT  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0203 row: K column: 13  
Seq primer: CGTTGTAACACGACGCCAGT  
Class: plasmid ends  
High quality sequence stop: 22.  
FEATURES  
Location/Qualifiers  
1..22  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0203K13"  
/sex="Female"  
/lab\_host="E. coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC2M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (female) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

# ORIGIN

Query Match 42.7%; Score 9.4; DB 8; Length 22;  
Best Local Similarity 90.9%; Pred. No. 7,1e+06;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 10 AGGTAGAAAAG 20  
||| ||| ||| ||| |||  
Db 13 AGGAAGAAAAG 3

RESULT 36  
TA82F07Q/c  
LOCUS  
DEFINITION T. brucei sheared genomic DNA clone 82f07, reverse sequence,  
22 bp DNA linear GSS 13-DEC-2000

Genomic survey sequence.

AL459970 GI:11860295

AL459970.1

Seq primer: GCA CAT TAG GCC TAT TTA GGT GAC A.

Location/Qualifiers

1. .19

/organism="Ambystoma mexicanum"

/mol\_type="mRNA"

/db\_xref="taxon:8296"

/tissue\_type="Tail Blastema"

/cell\_type="regenerating tail blastema"

/clone\_lib="6-Day Axolotl Tail Blastema (6DaxBL)"

/note="Vector: pCMVSPORT6; Site 1: NotI; Site 2: SalI; Unnormalized cDNA plasmid library prepared by Invitrogen. Size fractionated mRNA was polydt primed and cloned into NotI-SalI site of pCMVSPORT6. Bacterial host is EMDH10B-TONA. Average insert size is 1.67 kb."

TAG\_LIB=6DaxBL"

ORIGIN

Query Match 41.8%; Score 9.2; DB 7; Length 19;

Best Local Similarity 78.6%; Pred. No. 8.7e+06;

Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAAGC 21

|| || || || || || || || ||

Db 17 ACGAGTAGAAAAC 4

RESULT 38

AZ612157/c

LOCUS

DEFINITION

1M0438L21R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0438L21 R, genomic survey sequence.

ACCESSION

AZ612157

VERSION

AZ612157.1

KEYWORDS

GSS.

SOURCE

Mus musculus (house mouse)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE

1 (bases 1 to 19)

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL

Unpublished (2000)

COMMENT

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0438 row: L column: 21

Seq primer: CACACAGGAAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 19.

Location/Qualifiers

1. .19

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC1M0438L21"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, TI-resistant, P-"

/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

FEATURES

source

1. .22

/organism="Trypanosoma brucei"

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/strain="TRU927"

/db\_xref="taxon:5691"

/clone="82f07"

ORIGIN

Query Match 42.7%; Score 9.4; DB 9; Length 22;

Best Local Similarity 90.9%; Pred. No. 7.1e+06;

Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAG 11

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Db 19 GAATGTTACAG 9

RESULT 37

CO780477/c

LOCUS

DEFINITION

EL009D A05 6-Day Axolotl Tail Blastema (6DaxBL) Ambystoma mexicanum cDNA 57 similar to hypothetical protein, mRNA sequence.

ACCESSION

CO780477

VERSION

CO780477.1

KEYWORDS

EST.

SOURCE

Ambystoma mexicanum (axolotl)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomatidae; Ambystoma.

REFERENCE

1 (bases 1 to 19)

Habermann,B., Rebin,A.G., Herklotz,S., Volkmer,M., Eckelt,K., Pehlke,K., Epplein,H.H., Schackert,H.K., Wiebe,G. and Tanaka,E.M.

TITLE

An Ambystoma mexicanum EST sequencing project: Analysis of 17,352 expressed sequence tags from embryonic and regenerating blastema cDNA libraries

JOURNAL

Genome Biol. (2004) In press

COMMENT

Contact: Elly M. Tanaka

Tanaka Lab

Max Planck Institute of Molecular Cell Biology and Genetics, Dresden

Pfotenhauerstrasse 108, 01307 Dresden, Germany

Tel: 0049 351 210 2620

musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 [gi|4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 41.8%; Score 9.2; DB 8; Length 19;  
Best Local Similarity 78.6%; Pred. No. 8.7e+06;  
Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAG 20  
|||||  
Db 17 TCAGGTAGAAAAG 4

RESULT 39  
AZ817291  
LOCUS  
DEFINITION 2M0086P05R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0086P05 R, genomic survey sequence.

ACCESSION AZ817291.1 GI:12987199

VERSION GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE  
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 19)

Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,

Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: [ddunne@genetics.utah.edu](mailto:ddunne@genetics.utah.edu)

Insert Length: 10000 Std Error: 0.00

Plate: 0086 row: P column: 05

Seq primer: CACACAGGAAACAGCTATCACC

Class: plasmid ends

High quality sequence stop: 19.

Location/Qualifiers

1. .19

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC2M0086P05"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M."

## FEATURES

source

## ORIGIN

Query Match 41.8%; Score 9.2; DB 1; Length 21;

Best Local Similarity 73.3%; Pred. No. 8.9e+06;

Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 [gi|4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 41.8%; Score 9.2; DB 8; Length 19;  
Best Local Similarity 78.6%; Pred. No. 8.7e+06;  
Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAAGCC 22  
|||||  
Db 4 CAGGCACAAAAGCC 17

## RESULT 40

AU008312/c

LOCUS

DEFINITION AU008312 Schizosaccharomyces pombe late log phase cDNA Schizosaccharomyces pombe cDNA clone spc03191, mRNA sequence.

ACCESSION AU008312

VERSION AU008312.1 GI:3344770

KEYWORDS EST.

SOURCE Schizosaccharomyces pombe (fission yeast)

ORGANISM Schizosaccharomyces pombe

Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes;

Schizosaccharomycetales; Schizosaccharomycetaceae;

Schizosaccharomyces.

1 (bases 1 to 21)

Morimyo, M. and Mita, K.

Identification of expressed sequence tags of Schizosaccharomyces

pombe

Unpublished (1998)

Contact: Mitsuoki Morimyo

Genome Research Group

National Institute of Radiological Sciences

9-1, Anagawa-4-chome, Inage-Ku, Chiba, Chiba 263-8555, Japan

Email: [morimyo@nirs.go.jp](mailto:morimyo@nirs.go.jp).

Location/Qualifiers

1. .21

/organism="Schizosaccharomyces pombe"

/mol\_type="mRNA"

/strain="972"

/db\_xref="taxon:4896"

/clone="spc03191"

/sex="h minus"

/clone\_lib="Schizosaccharomyces pombe late log phase cDNA"

/note="Vector: M13mp19; The cDNA library of

Schizosaccharomyces pombe was prepared by cloning cDNA

into the SmaI site of M13mp19 DNA and the direction of

sequences was not always from 5' to 3'. The cDNA data of

Schizosaccharomyces pombe are available for searching on

the World Wide Web. (URL, <http://www.nirs.go.jp>)"

Qy 6 TTACAGGTAGAAAAG 20  
| | | | | | | | | |  
Db 18 TNACAGCAGGAAAG 4

Search completed: August 12, 2005, 09:54:57  
Job time : 1787 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 09:25:17 ; Search time 1566 Seconds  
(without alignments)  
649.783 Million cell updates/sec

Title: US-09-743-825-8

Perfect score: 21

Sequence: 1 ctggcgatctctgaagagctctg 21

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 892778

Minimum DB seq length: 0

Maximum DB seq length: 21

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

GenEmbl.\*

1: gb\_ba.\*

2: gb\_hhg.\*

3: gb\_in.\*

4: gb\_om.\*

5: gb\_ov.\*

6: gb\_pat.\*

7: gb\_ph.\*

8: gb\_pl.\*

9: gb\_pt.\*

10: gb\_ro.\*

11: gb\_ats.\*

12: gb\_sy.\*

13: gb\_un.\*

14: gb\_vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description        |
|------------|-------|-------------|--------|----|--------------------|
| 1          | 13    | 61.9        | 20     | 6  | AR116690 Sequence  |
| 2          | 13    | 61.9        | 20     | 6  | AR275648 Sequence  |
| 3          | 12.8  | 61.0        | 17     | 6  | AR402108 Sequence  |
| 4          | 12.8  | 61.0        | 17     | 6  | BD067608 Enzymatic |
| 5          | 12.8  | 61.0        | 20     | 6  | AL7234 Oligonucleo |
| 6          | 12.8  | 61.0        | 20     | 6  | AR027617 Sequence  |
| 7          | 12.2  | 58.1        | 17     | 6  | AR402109 Sequence  |
| 8          | 12.2  | 58.1        | 17     | 6  | AX690585 Sequence  |
| 9          | 12.2  | 58.1        | 17     | 6  | BD067609 Enzymatic |
| 10         | 12.2  | 58.1        | 20     | 6  | AR070817 Sequence  |
| 11         | 12.2  | 58.1        | 20     | 6  | AR104505 Sequence  |
| 12         | 12.2  | 58.1        | 20     | 6  | AX962823 Sequence  |
| 13         | 12    | 57.1        | 17     | 6  | AX737882 Sequence  |
| 14         | 11.8  | 56.2        | 16     | 6  | AR328335 Sequence  |
| 15         | 11.8  | 56.2        | 17     | 6  | AR007304 Sequence  |
| 16         | 11.8  | 56.2        | 17     | 6  | AR053990 Sequence  |
| 17         | 11.8  | 56.2        | 17     | 6  | AR135992 Sequence  |
| 18         | 11.8  | 56.2        | 17     | 6  | I22067 Sequence 4  |
| 19         | 11.8  | 56.2        | 17     | 6  | AR327036 Sequence  |

93 10.8 51.4 17 6 BD255269  
 94 10.8 51.4 17 6 BD255495  
 95 10.8 51.4 17 6 BD255496  
 96 10.8 51.4 17 6 BD255497  
 97 10.8 51.4 17 6 AR186193  
 98 10.8 51.4 17 6 AR322824  
 99 10.8 51.4 17 6 AX217098  
 c 100 10.8 51.4 17 6 AX217837

BD255269 Regulatio  
 BD255495 Regulatio  
 BD255496 Regulatio  
 BD255497 Regulatio  
 AR186193 Sequence  
 AR322824 Sequence  
 AX217098 Sequence  
 AX217837 Sequence

## ALIGNMENTS

RESULT 1  
 LOCUS AR116690 20 bp DNA linear PAT 16-MAY-2001  
 DEFINITION Sequence 3 from patent US 6133434.  
 ACCESSION AR116690  
 VERSION AR116690.1 GI:14097012  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 20)  
 AUTHORS Buell G.Nutter., Surprenant, A. and Kawashima, E.  
 TITLE Purinergic receptor  
 JOURNAL Patent: US 6133434-A 3 17-OCT-2000;  
 FEATURES Location/Qualifiers  
 source 1..20  
 /organism="unknown"  
 /mol\_type="unassigned DNA"

ORIGIN

Query Match 61.9%; Score 13; DB 6; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GCGGTATCTGAAG 15  
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 Db 1 GCGGTATCTGAAG 13

RESULT 2  
 LOCUS AR275648 20 bp DNA linear PAT 10-APR-2003  
 DEFINITION Sequence 3 from patent US 6509163.  
 ACCESSION AR275648  
 VERSION AR275648.1 GI:29709099  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 20)  
 AUTHORS Buell G.N., Surprenant, A. and Kawashima, E.  
 TITLE Methods of screening modulators of mammalian P2X7 purinergic  
 receptors  
 JOURNAL Patent: US 6509163-A 3 21-JAN-2003;  
 FEATURES Location/Qualifiers  
 source 1..20  
 /organism="unknown"  
 /mol\_type="genomic DNA"

ORIGIN

Query Match 61.9%; Score 13; DB 6; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GCGGTATCTGAAG 15  
 |||||  
 Db 1 GCGGTATCTGAAG 13

RESULT 3

AR402108/c  
 LOCUS AR402108 17 bp DNA linear PAT 18-DEC-2003  
 DEFINITION Sequence 448 from patent US 6623962.  
 ACCESSION AR402108  
 VERSION AR402108.1 GI:40149558  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 17)  
 AUTHORS Akhtar, S., Fell, P. and McSwiggen, J.A.  
 TITLE Enzymatic nucleic acid treatment of diseases or conditions related  
 to levels of epidermal growth factor receptors  
 JOURNAL Patent: US 6623962-A 448 23-SEP-2003;  
 FEATURES Location/Qualifiers  
 source 1..17  
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 /mol\_type="genomic DNA"

ORIGIN

Query Match 61.0%; Score 12.8; DB 6; Length 17;  
 Best Local Similarity 87.5%; Pred. No. 1.6e+05;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCTG 21  
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 Db 16 GTATCGAAGAGTCTG 1

RESULT 4  
 LOCUS BD067608/c 17 bp RNA linear PAT 27-AUG-2002  
 DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related  
 to levels of epidermal growth factor receptors.

ACCESSION BD067608  
 VERSION BD067608.1 GI:22613211  
 KEYWORDS JP 2001511003-A/448.  
 SOURCE unidentified  
 ORGANISM unidentified

REFERENCE 1 (bases 1 to 17)  
 AUTHORS Akhtar, S., Fell, P. and McSwiggen, J.A.  
 TITLE Enzymatic nucleic acid treatment of diseases or conditions related  
 to levels of epidermal growth factor receptors  
 JOURNAL Patent: JP 2001511003-A 448 07-AUG-2001;  
 COMMENT RIBOZYME PHARMACEUTICALS INC, ASTON UNIV

OS Unidentified  
 PN JP 2001511003-A/448  
 PD 07-AUG-2001  
 PF 14-JAN-1998 JP 1998532913  
 PR 31-JAN-1997 US 60/036476, 04-DEC-1997 US 08/985162 PI  
 SAGHIR AKHTAR, PATRICIA FELL, JAMES A MCSWIGGEN PC  
 C12N9/00, C07K14/71  
 CC Strandedness: Single;  
 CC Topology: Linear;

CC Enzymatic nucleic acid treatment of diseases or conditions CC  
 related to  
 CC levels of epidermal growth factor receptors  
 FH Key Location/Qualifiers  
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 FEATURES Location/Qualifiers  
 source 1..17  
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 /db\_xref="taxon:32644"

ORIGIN

Query Match 61.0%; Score 12.8; DB 6; Length 17;  
 Best Local Similarity 87.5%; Pred. No. 1.6e+05;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCTG 21



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Db      16 GTATCGAAGAGTCTG 1
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LOCUS   A17234          20 bp  DNA  linear  PAT 31-MAR-1994
DEFINITION   Oligonucleotide 20-mer BB9513 (SEQ ID NO: 134).
ACCESSION   A17234
VERSION     A17234.1  GI:513003
KEYWORDS    .
SOURCE      synthetic construct
ORGANISM    other sequences; artificial sequences.
REFERENCE   1 (bases 1 to 20).
AUTHORS
TITLE       STEM CELL INHIBITING PROTEINS
JOURNAL
PUBLISHED  Patent: WO 9313206-A 134 08-JUL-1993;
FEATURES
SOURCE      1..20
            /organism="synthetic construct"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32630"

ORIGIN
Query Match      61.0%; Score 12.8; DB 6; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.5e+05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy  1 CTGGCGTATCTGAAGA 16
Db  17 CTGACGCATCTGAAGA 2
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RESULT 6
LOCUS   AR027617/c          20 bp  DNA  linear  PAT 29-SEP-1999
DEFINITION   Sequence 134 from patent US 5856301.
ACCESSION   AR027617
VERSION     AR027617.1  GI:5938437
KEYWORDS    .
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 20)
AUTHORS    Craig,S., Hunter,M.George., Edwards,R.Mark., Czaplewski,L.George.
            and Gilbert,R.James.
TITLE      Stem cell inhibiting proteins
JOURNAL
PUBLISHED  Patent: US 5856301-A 134 05-JAN-1999;
FEATURES
SOURCE      1..20
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ORIGIN
Query Match      61.0%; Score 12.8; DB 6; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.5e+05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy  1 CTGGCGTATCTGAAGA 16
Db  17 CTGACGCATCTGAAGA 2
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RESULT 7
LOCUS   AR402109/c          17 bp  DNA  linear  PAT 18-DEC-2003
DEFINITION   Sequence 449 from patent US 6623962.
ACCESSION   AR402109
VERSION     AR402109.1  GI:40149559
KEYWORDS    .
SOURCE      Unknown.
ORGANISM    Unknown.

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Unclassified.
REFERENCE   1 (bases 1 to 17)
AUTHORS    Akhtar,S., Fell,P. and McSwiggen,J.A.
TITLE      Enzymatic nucleic acid treatment of diseases of conditions related
            to levels of epidermal growth factor receptors
JOURNAL
PUBLISHED  Patent: US 6623962-A 449 23-SEP-2003;
FEATURES
SOURCE      1..17
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            /mol_type="genomic DNA"

ORIGIN
Query Match      58.1%; Score 12.2; DB 6; Length 17;
Best Local Similarity 82.4%; Pred. No. 3.3e+05;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy  4 GCGTATCTGAAGTCT 20
Db  17 GGGTATCGAAAGTCT 1
|||||  |||||  |||||  |||||  |||||

RESULT 8
LOCUS   AX690585/c          17 bp  DNA  linear  PAT 31-MAR-2003
DEFINITION   Sequence 3317 from Patent EP1281758.
ACCESSION   AX690585
VERSION     AX690585.1  GI:29413466
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
REFERENCE   1
AUTHORS    Shannon,M., Gu,Y. and Nguyen,C.T.
TITLE      A human zinc-finger-containing proteins : mdz3, mdz4, mdz7 and
            mdz12
JOURNAL
PUBLISHED  Patent: EP 1281758-A 3317 05-FEB-2003;
FEATURES
SOURCE      1..17
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

ORIGIN
Query Match      58.1%; Score 12.2; DB 6; Length 17;
Best Local Similarity 82.4%; Pred. No. 3.3e+05;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy  1 CTGGCGTATCTGAAGAG 17
Db  17 CTGGAGCTTTGAAGAG 1
|||||  |||||  |||||  |||||  |||||

RESULT 9
LOCUS   BD067609/c          17 bp  RNA  linear  PAT 27-AUG-2002
DEFINITION   Enzymatic nucleic acid treatment of diseases or conditions related
            to levels of epidermal growth factor receptors.
ACCESSION   BD067609
VERSION     BD067609.1  GI:22613212
KEYWORDS    JP 2001511003-A/449.
SOURCE      unidentified
ORGANISM    unidentified
REFERENCE   1 (bases 1 to 17)
AUTHORS    Akhtar,S., Fell,P. and Mcswiggen,J.A.
TITLE      Enzymatic nucleic acid treatment of diseases or conditions related
            to levels of epidermal growth factor receptors
JOURNAL
PUBLISHED  Patent: JP 2001511003-A 449 07-AUG-2001;
COMMENT     RIBOZYME PHARMACEUTICALS INC.ASTON UNIV
            OS Unidentified
            PN JP 2001511003-A/449

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PD 07-AUG-2001  
PP 14-JAN-1998 JP 1998532913  
PR 31-JAN-1997 US 60/036476,04-DEC-1997 US 08/985162 PI  
SAGHIR AKHTAR,PATRICIA FELL,JAMES A MCSWIGGEN PC  
C12N9/00,C07K14/71  
CC Strandedness: Single;  
CC Topology: Linear;  
CC Enzymatic nucleic acid treatment of diseases or conditions CC  
related to  
CC levels of epidermal growth factor receptors  
FH Key Location/Qualifiers  
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FT /organism='Unidentified'.  
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Location/Qualifiers  
/organism='unidentified'  
/mol\_type='genomic RNA'  
/db\_xref='taxon:32644'  
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Best Local Similarity 82.4%; Pred. No. 3.3e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 4 GCGTATCTGAAGAGTCT 20  
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Db 17 GGGTATCGAAAGAGTCT 1  
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RESULT 10  
AR070817 AR070817 20 bp DNA linear PAT 18-FEB-2000  
LOCUS  
DEFINITION Sequence 8 from patent US 5908773.  
ACCESSION AR070817  
VERSION AR070817.1 GI:7221705  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE  
1 (bases 1 to 20)  
AUTHORS Cesarman,E., Arvanitakis,L., Knowles,D.M. and Mesri,E.  
TITLE KSHV positive cell lines  
JOURNAL Patent: US 5908773-A 8 01-JUN-1999;  
LOCATION/Qualifiers  
FEATURES  
source  
1..20  
/organism='unknown'  
/mol\_type='unassigned DNA'  
ORIGIN  
Query Match 58.1%; Score 12.2; DB 6; Length 20;  
Best Local Similarity 82.4%; Pred. No. 3.3e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 5 CGTATCTGAAGAGTCTG 21  
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Db 1 CGGAGCTAAGAGTCTG 17  
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RESULT 11  
AR104505 AR104505 20 bp DNA linear PAT 14-FEB-2001  
LOCUS  
DEFINITION Sequence 8 from patent US 6093806.  
ACCESSION AR104505  
VERSION AR104505.1 GI:12817213  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE  
1 (bases 1 to 20)  
AUTHORS Cesarman,E. and Knowles,D.M.  
TITLE DNA encoding proteins of Kaposi's sarcoma associated herpesvirus  
JOURNAL Patent: US 6093806-A 8 25-JUL-2000;  
LOCATION/Qualifiers  
FEATURES

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/organism='unknown'  
/mol\_type='unassigned DNA'  
ORIGIN  
Query Match 58.1%; Score 12.2; DB 6; Length 20;  
Best Local Similarity 82.4%; Pred. No. 3.3e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 5 CGTATCTGAAGAGTCTG 21  
| | | | | | | | | | | | | | | | | |  
Db 1 CGGAGCTAAGAGTCTG 17  
| | | | | | | | | | | | | | | | | |  
RESULT 12  
AX962823/c AX962823 20 bp DNA linear PAT 14-JAN-2004  
LOCUS  
DEFINITION Sequence 79 from Patent WO03104458.  
ACCESSION AX962823  
VERSION AX962823.1 GI:40881936  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
other sequences; artificial sequences.  
REFERENCE  
1  
AUTHORS Baker,B.F., Freier,S.M. and Dobie,K.W.  
TITLE Antisense modulation of il-1 receptor-associated kinase-1  
JOURNAL Patent: WO 03104458-A 79 18-DEC-2003;  
ISIS PHARMACEUTICALS, INC. (US)  
LOCATION/Qualifiers  
FEATURES  
source  
1..20  
/organism='synthetic construct'  
/mol\_type='unassigned DNA'  
/db\_xref='taxon:32630'  
/note='Antisense Oligonucleotide'  
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Query Match 58.1%; Score 12.2; DB 6; Length 20;  
Best Local Similarity 82.4%; Pred. No. 3.3e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 4 GCGTATCTGAAGAGTCT 20  
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Db 17 GCGTAGCTGGAGGTCT 1  
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RESULT 13  
AX737882/c AX737882 17 bp DNA linear PAT 08-MAY-2003  
LOCUS  
DEFINITION Sequence 3472 from Patent WO03025177.  
ACCESSION AX737882  
VERSION AX737882.1 GI:30517170  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
1  
AUTHORS Telerman,A., Amson,R. and Tuijnder,M.  
TITLE Sequences involved in phenomena of tumour suppression, tumour  
reversion, apoptosis and/or resistance to viruses and the use  
thereof as medicaments  
JOURNAL Patent: WO 03025177-A 3472 27-MAR-2003;  
Molecular Engines Laboratories (FR)  
LOCATION/Qualifiers  
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/mol\_type='unassigned DNA'  
/db\_xref='taxon:9606'  
ORIGIN  
Query Match 57.1%; Score 12; DB 6; Length 17;

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Best Local Similarity 100.0%; Pred. No. 4.2e+05;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 TATCTGAAGACT 18
Db 17 TATCTGAAGACT 6

RESULT 14
AR053990.1 16 bp RNA linear PAT 17-AUG-2003
LOCUS
DEFINITION Sequence 5737 from patent US 6566127.
ACCESSION AR053990
VERSION AR053990.1 GI:33714143
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 16)
AUTHORS Pavco, P., McSwigen, J.A., Stinchcomb, D.T. and Escobedo, J.
TITLE Method and reagent for the treatment of diseases or conditions
JOURNAL related to levels of vascular endothelial growth factor receptor
FEATURES
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                /organism="unknown"
                /mol_type="unassigned RNA"
ORIGIN
Query Match 56.2%; Score 11.8; DB 6; Length 16;
Best Local Similarity 86.7%; Pred. No. 5.5e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGTATCTGAAGAG 17
Db 2 GACGTACTGAAGAG 16

RESULT 15
AR007304 17 bp DNA linear PAT 04-DEC-1998
LOCUS
DEFINITION Sequence 18 from patent US 5750390.
ACCESSION AR007304
VERSION AR007304.1 GI:3966788
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 17)
AUTHORS Thompson, J.D. and Draper, K.G.
TITLE Method and reagent for treatment of diseases caused by expression
JOURNAL of the bcl-2 gene
FEATURES
    Location/Qualifiers
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                /organism="unknown"
                /mol_type="unassigned DNA"
ORIGIN
Query Match 56.2%; Score 11.8; DB 6; Length 17;
Best Local Similarity 86.7%; Pred. No. 5.5e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGACTCT 20
Db 3 GTCTCTGAAGACTCT 17

RESULT 16
AR053990 17 bp DNA linear PAT 29-SEP-1999
LOCUS
DEFINITION Sequence 4 from patent US 5834302.
ACCESSION AR053990
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VERSION AR053990.1 GI:5978852
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 17)
AUTHORS Racaniello, V., Tatem, J. Marie. and Weeks-Levy, C.L.
TITLE Method for producing RNA viruses from CDNA
JOURNAL Patent: US 5834302-A 4 10-NOV-1998;
FEATURES
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                /organism="unknown"
                /mol_type="unassigned DNA"
ORIGIN
Query Match 56.2%; Score 11.8; DB 6; Length 17;
Best Local Similarity 86.7%; Pred. No. 5.5e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGTATCTGAAGAG 17
Db 1 GCGTATCTGACAG 15

RESULT 17
AR135992 17 bp DNA linear PAT 16-JUN-2001
LOCUS
DEFINITION Sequence 4 from patent US 6136570.
ACCESSION AR135992
VERSION AR135992.1 GI:14476664
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 17)
AUTHORS Racaniello, V., Tatem, J. Marie. and Weeks-Levy, C.L.
TITLE Method for producing RNA viruses from CDNA
JOURNAL Patent: US 6136570-A 4 24-OCT-2000;
FEATURES
    Location/Qualifiers
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                /organism="unknown"
                /mol_type="unassigned DNA"
ORIGIN
Query Match 56.2%; Score 11.8; DB 6; Length 17;
Best Local Similarity 86.7%; Pred. No. 5.5e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGTATCTGAAGAG 17
Db 1 GCGTATCTGACAG 15

RESULT 18
I22067 17 bp DNA linear PAT 07-OCT-1996
LOCUS
DEFINITION Sequence 4 from patent US 5525715.
ACCESSION I22067
VERSION I22067.1 GI:1602421
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 17)
AUTHORS Racaniello, V., Tatem, J.M. and Weeks-Levy, C.L.
TITLE Method for producing RNA viruses from CDNA
JOURNAL Patent: US 5525715-A 4 11-JUN-1996;
FEATURES
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                /organism="unknown"
                /mol_type="unassigned DNA"
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Query Match 56.2%; Score 11.8; DB 6; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5.5e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGCTATCTGAAGAG 17  
|||||  
Db 1 GCGCTATCTGACAG 15

RESULT 19  
AR327036  
LOCUS AR327036 17 bp RNA linear PAT 17-AUG-2003  
DEFINITION Sequence 4438 from patent US 6566127.  
ACCESSION AR327036  
VERSION AR327036.1 GI:33712844  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.  
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6566127-A 4438 20-MAY-2003;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="unassigned RNA"

ORIGIN

Query Match 56.2%; Score 11.8; DB 6; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5.5e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGCTATCTGAAGAG 17  
|||||  
Db 1 GACGTRACTGAAGAG 15

RESULT 20  
AR402107/c  
LOCUS AR402107 17 bp DNA linear PAT 18-DEC-2003  
DEFINITION Sequence 447 from patent US 6623962.  
ACCESSION AR402107  
VERSION AR402107.1 GI:40149557  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Akhtar,S., Fell,P. and McSwiggen,J.A.  
TITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors  
JOURNAL Patent: US 6623962-A 447 23-SEP-2003;  
FEATURES Location/Qualifiers  
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/organism="unknown"  
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ORIGIN

Query Match 56.2%; Score 11.8; DB 6; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5.5e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGTCTG 21  
|||||  
Db 17 TATCGAAGAGTCTG 3

RESULT 21  
AX217836/c  
LOCUS AX217836 17 bp RNA linear PAT 07-SEP-2001  
DEFINITION Sequence 3278 from Patent WO0159103.

ACCESSION AX217836  
VERSION AX217836.1 GI:15527897  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE 1  
AUTHORS Blatt,L., McSwiggen,J. and Chowrira,B.M.  
TITLE Method and reagent for the modulation and diagnosis of cd20 and nogo gene expression  
JOURNAL Patent: WO 0159103-A 3278 16-AUG-2001;  
RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ; McSwiggen, James (US) ; Chowrira, Bharat M. (US)  
FEATURES Location/Qualifiers  
source 1..17  
/organism="synthetic construct"  
/mol\_type="unassigned RNA"  
/db\_xref="taxon:32630"  
/note="Nucleic Acid"

ORIGIN

Query Match 56.2%; Score 11.8; DB 6; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5.5e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGT 18  
|||||  
Db 16 GCGTATGTGCAGAGT 2

RESULT 22  
BD067607/c  
LOCUS BD067607 17 bp RNA linear PAT 27-AUG-2002  
DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors.  
ACCESSION BD067607  
VERSION BD067607.1 GI:22613210  
KEYWORDS JP 2001511003-A/447.  
SOURCE unidentified  
ORGANISM unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Akhtar,S., Fell,P. and McSwiggen,J.A.  
TITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors  
JOURNAL Patent: JP 2001511003-A 447 07-AUG-2001;  
COMMENT RIBOZYME PHARMACEUTICALS INC./ASTON UNIV  
OS Unidentified  
PN JP 2001511003-A/447  
PD 07-AUG-2001  
PF 14-JAN-1998 JP 1998532913  
PR 31-JAN-1997 US 60/036476,04-DEC-1997 US 08/985162 PI  
SAGHR AKHTAR,PATRICIA FELL,JAMES A MCSWIGGEN PC  
C12N9/00,C07K14/71  
CC Strandedness: Single;  
CC Topology: Linear;  
CC Enzymatic nucleic acid treatment of diseases or conditions related to  
CC levels of epidermal growth factor receptors  
FH Key Location/Qualifiers  
FT source 1..17  
/organism="Unidentified".  
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/organism="unidentified"  
/mol\_type="genomic RNA"  
/db\_xref="taxon:32644"

ORIGIN

Query Match 56.2%; Score 11.8; DB 6; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5.5e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy 7 TATCTGAAGAGTCTG 21
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Db 17 TATCGAAGAGTCTG 3

RESULT 23
LOCUS AR160744/c
DEFINITION Sequence 38 from patent US 6255110.
ACCESSION AR160744
VERSION AR160744.1 GI:16225330
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Cowsett,L.M. and Wyatt,J.
TITLE Antisense modulation of ARA70 expression
JOURNAL Patent: US 6255110-A 38 03-JUL-2001;
FEATURES
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                /mol_type="unassigned DNA"

ORIGIN
Query Match 56.2%; Score 11.8; DB 6; Length 20;
Best Local Similarity 86.7%; Pred. No. 5.4e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAG 15
    ||||| |||||
Db 16 CTGGCCAATCTGAAG 2

RESULT 24
LOCUS AR310829
DEFINITION Sequence 1366 from patent US 6559294.
ACCESSION AR310829
VERSION AR310829.1 GI:31704255
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Griffais,R., Hoiseh,S.K., Zagursky,R.J., Metcalf,B.J., Peek,J.A.,
TITLE Sankaran,B. and Fletcher,L.D.
JOURNAL Chlamydia pneumoniae polynucleotides and uses thereof
FEATURES
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                /mol_type="genomic DNA"

ORIGIN
Query Match 56.2%; Score 11.8; DB 6; Length 20;
Best Local Similarity 86.7%; Pred. No. 5.4e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGT 18
    ||||| |||||
Db 1 GCGGATCTGAGGAGT 15

RESULT 25
LOCUS BD238283/c
DEFINITION Accelerated identification of polymorphism of single nucleotide in
genome sequencing and alignment of clones.
ACCESSION BD238283
VERSION BD238283.1 GI:33048053
KEYWORDS JP 2002534098-A/118.
SOURCE synthetic construct

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ORGANISM synthetic construct
REFERENCE 1 (bases 1 to 21)
AUTHORS Barany,F., Liu,J., Kirk,B.W., Zirvi,M., Gerry,N.P. and Paty,P.B.
TITLE Accelerated identification of polymorphism of single nucleotide in
genome sequencing and alignment of clones
JOURNAL Patent: JP 2002534098-A 118 15-OCT-2002;
CORNELL RESEARCH FOUNDATION INC, SLOAN KETTERING INSTITUTE FOR
CANCER RESEARCH
COMMENT OS Artificial Sequence
PN JP 2002534098-A/118
PD 15-OCT-2002
PF 05-JAN-2000 JP 2000592447
PR 06-JAN-1999 US 60/114881
PI FRANCIS BARANY, JIANZHAO LIU, BRIAN W KIRK, MONIB ZIRVI, NORMAN P
PI GERRY,
PI PHILIP B PATY
PC C12N15/09,C12Q1/68,G01N33/53,G01N33/566,G01N37/00,G01N37/00//
PC G01N33/50,
PC C12N15/00
CC Description of Artificial Sequence: probe/primer FH Key
Location/Qualifiers
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FEATURES
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            Location/Qualifiers
                /organism="synthetic construct"
                /mol_type="genomic DNA"
                /db_xref="taxon:32630"

ORIGIN
Query Match 56.2%; Score 11.8; DB 6; Length 21;
Best Local Similarity 86.7%; Pred. No. 5.4e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAG 15
    ||||| |||||
Db 17 CTGGTGTGTCTGAAG 3

RESULT 26
LOCUS AX804694/c
DEFINITION Sequence 862 from Patent WO03060160.
ACCESSION AX804694
VERSION AX804694.1 GI:38521835
KEYWORDS
SOURCE Oreochromis niloticus (Nile tilapia)
ORGANISM Oreochromis niloticus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes;
Labroidae; Cichlidae; Oreochromis.
REFERENCE 1
AUTHORS Lie,Y., Slettan,A., Hoeyum,M. and Lingaas,F.
TITLE Verification of food origin based on nucleic acid pattern
recognition
JOURNAL Patent: WO 03060160-A 862 24-JUL-2003;
Genomar ASA (NO)
FEATURES
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                /organism="Oreochromis niloticus"
                /mol_type="unassigned DNA"
                /db_xref="taxon:8128"

ORIGIN
Query Match 56.2%; Score 11.8; DB 6; Length 21;
Best Local Similarity 86.7%; Pred. No. 5.4e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGGTATCTGAAGAG 17
    ||||| |||||
Db 15 GCGGTATTTGGAGAG 1

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RESULT 27
LOCUS DOGC00505A/c 21 bp DNA linear STS 10-APR-1996
DEFINITION Canis familiaris STS microsatellite marker (repeat motif in
reference clone (GT)9T(TG)4(TA)4(TG)7) DNA, sequence tagged site.
ACCESSION L77539
VERSION L77539.1 GI:1261663
KEYWORDS STS; PCR identification; microsatellite; sequence tagged site.
SOURCE Canis familiaris (dog)
ORGANISM Canis familiaris
REFERENCE 1 (bases 1 to 21)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
TITLE yuzbaaiyan-Gurkan,V., Cao,Y., Gurkan,M., Yuxun,W., Venta,P.J.,
JOURNAL Brewer,G.J. and Blanton,S.H.
COMMENT Microsatellite markers for the canine genome
Unpublished (1996)
Original source text: Canis familiaris female adult peripheral
blood DNA.
FEATURES
source
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/organism="Canis familiaris"
/mol_type="genomic DNA"
/db_xref="taxon:9615"
/sex="female"
/cell_type="white blood cells"
/tissue_type="peripheral blood"
/dev_stage="adult"
1..21
/notes="product size 230"
STS
ORIGIN
Query Match 56.2%; Score 11.8; DB 11; Length 21;
Best Local Similarity 86.7%; Pred. No. 5.4e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGTCTG 21
|||||
Db 15 TATCTGAAGGCTCTG 1

RESULT 28
LOCUS CQ786885/c 18 bp DNA linear PAT 24-MAR-2004
DEFINITION Sequence 62 from Patent WO2004021010.
ACCESSION CQ786885
VERSION CQ786885.1 GI:45721877
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Nakamura,Y. and Furukawa,Y.
TITLE Method of diagnosing colon and gastric cancers
JOURNAL Patent: WO 2004021010-A 62 11-MAR-2004;
Oncotherapy Science, Inc. (JP); Japan as represented by the
president of the university of Tokyo (JP)
FEATURES
location/Qualifiers
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="Artificially synthesized S-oligonucleotide"
ORIGIN
Query Match 55.2%; Score 11.6; DB 6; Length 18;
Best Local Similarity 77.8%; Pred. No. 7e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 21
|||||
Db 19 GTGTCTCTGGAGAGCCTG 2

RESULT 29
LOCUS DOGP17601/c 20 bp DNA linear MAM 16-JAN-1996
DEFINITION Dog (Clone: CXK.176) primer for STS 176, 5' end.
ACCESSION L24208
VERSION L24208.1 GI:401855
KEYWORDS PCR identification; PCR primer; STS.
SEGMENT 1 of 2
SOURCE Canis familiaris (dog)
ORGANISM Canis familiaris
REFERENCE 1 (bases 1 to 20)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
TITLE (bases 1 to 20)
JOURNAL Ostrander,E.A., Mapa,F.A., Yee,M. and Rine,J.
MEDLINE One hundred and one new simple sequence repeat-based markers for
PUBMED the canine genome
7749226 Mamm. Genome 6 (3), 192-195 (1995)
COMMENT Original source text: Canis familiaris (library: E. Ostrander, in
pBluescript+) adult spleen DNA.
Submitted by: Fred Hutchinson Cancer Research Center
Transplantation Biology Dept 1124 Columbia; Mailstop M318
Seattle, WA 98104, USA e-mail: EOstrander@bl.gov PCR
Buffer: PCR buffer (Perkin-Elmer/Cetus) PCR Profile:
Denaturation: 94 degrees C for 1.00 minute Annealing:
or 59 degrees C for 0.45 minutes Polymerization: 74 degrees C
for 1.00 minutes PCR Cycles: 33 Final Extension: 74
degrees C for 5.00 minutes.
FEATURES
Location/Qualifiers
1..20
/organism="Canis familiaris"
/mol_type="genomic DNA"
/db_xref="taxon:9615"
/tissue_type="spleen"
/dev_stage="adult"
/tissue_lib="E. Ostrander, in pBluescript+"
1..20
primer_bind
ORIGIN
Query Match 55.2%; Score 11.6; DB 4; Length 20;
Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 21
|||||
Db 19 GTGTCTCTGGAGAGCCTG 2

RESULT 30
LOCUS BD138203 20 bp DNA linear PAT 18-SEP-2002
DEFINITION Antisense modulation of human MDM2 expression.
ACCESSION BD138203
VERSION BD138203.1 GI:23233148
KEYWORDS JP 2002508944-A/129.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 20)
AUTHORS Miraglia,L.J., Nero,P., Graham,M.J., Monia,B.P. and Cowsewrt,L.M.
TITLE Antisense modulation of human MDM2 expression
JOURNAL Patent: JP 2002508944-A 129 26-MAR-2002;
ISIS PHARMACEUTICALS INC
COMMENT OS Unidentified
PN JP 2002508944-A/129
PD 26-MAR-2002

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PF 26-MAR-1999 JP 2000538025
PR 26-MAR-1998 US 09/048810
PI LOREN J MIRAGLIA, PAMELA NERO, MARK J GRAHAM, BRETT P MONIA, LEX M

PI CONSENT
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PC C12Q1/68,
PC C12N15/00
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DEFINITION Sequence 101 from Patent EP1403384.
ACCESSION CQ794181
VERSION CQ794181.1 GI:46406823
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Meijer, C.J. and Snijders, P.J.
TITLE Method for detecting and typing of cutaneous HPV and primers and
JOURNAL probes for use therein
Patent: EP 1403384-A 101 31-MAR-2004;
Stichting Researchfonds Pathologie (NL)
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RESULT 32
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LOCUS CQ800150 20 bp DNA linear PAT 29-APR-2004
DEFINITION Sequence 101 from Patent WO2004029302.
ACCESSION CQ800150
VERSION CQ800150.1 GI:46849070
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Meijer, C.J. and Snijders, P.J.
TITLE Method for detecting and typing of cutaneous HPV and primers and
JOURNAL probes for use therein
Patent: EP 1403384-A 101 31-MAR-2004;
Stichting Researchfonds Pathologie (NL)
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RESULT 33
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LOCUS CQ831775 20 bp DNA linear PAT 29-JUL-2004
DEFINITION Sequence 29 from Patent WO2004056994.
ACCESSION CQ831775
VERSION CQ831775.1 GI:50831650
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Gouliaev, A.H., Holtmann, A., Pedersen, H. and Franch, T.
TITLE Quasirandom structure and function guided synthesis methods
JOURNAL Patent: WO 2004056994-A 29 08-JUL-2004;
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Qy 4 GCGTATCTGAAGAGTCTG 21
Db 1 GCCTATGTGACGAATCTG 18

RESULT 34
AR230770
LOCUS AR230770 20 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 30 from patent US 6451602.
ACCESSION AR230770
VERSION AR230770.1 GI:27271557
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Popoff, I. and Cowsett, L.M.
TITLE Antisense modulation of PARP expression
JOURNAL Patent: US 6451602-A 30 17-SEP-2002;
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REFERENCE
AUTHORS Meijer, C.J. and Snijders, P.J.
TITLE Method for detecting and typing of cutaneous hpv and primers and
JOURNAL probes for use therein
Patent: WO 2004029302-A 101 08-APR-2004;
Stichting Researchfonds Pathologie (NL)
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DEFINITION Sequence 29 from Patent WO2004056994.
ACCESSION CQ831775
VERSION CQ831775.1 GI:50831650
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Gouliaev, A.H., Holtmann, A., Pedersen, H. and Franch, T.
TITLE Quasirandom structure and function guided synthesis methods
JOURNAL Patent: WO 2004056994-A 29 08-JUL-2004;
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Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 21
Db 1 GCCTATGTGACGAATCTG 18

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DEFINITION Sequence 30 from patent US 6451602.
ACCESSION AR230770
VERSION AR230770.1 GI:27271557
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS Popoff, I. and Cowsett, L.M.
TITLE Antisense modulation of PARP expression
JOURNAL Patent: US 6451602-A 30 17-SEP-2002;
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Db 1 GCTTATCGAAGACTCG 18
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RESULT 35
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LOCUS AR312230 20 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 2767 from patent US 6559294.
ACCESSION AR312230
VERSION AR312230.1 GI:31705656
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Griffais,R., Hoiseth,S.K., Zagursky,R.J., Metcalf,B.J., Peek,J.A.,
TITLE Sankaran,B. and Fletcher,L.D.
JOURNAL Chlamydia pneumoniae polynucleotides and uses thereof
PATENT: US 6559294-A 2767 06-MAY-2003;
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DEFINITION Sequence 12 from patent US 6737245.
ACCESSION AR535425
VERSION AR535425.1 GI:53926637
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Francis,K.P., Contag,P.R. and Joh,D.J.
TITLE Luciferase expression cassettes and methods of use
JOURNAL Patent: US 6737245-A 12 18-MAY-2004;
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LOCUS AX093430 20 bp DNA linear PAT 15-FEB-2002
DEFINITION Sequence 15 from Patent WO0208431.
ACCESSION AX361094
VERSION AX361094
KEYWORDS AX361094.1 GI:18693753
SOURCE
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
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LOCUS AX093430 20 bp DNA linear PAT 30-MAR-2001
DEFINITION Sequence 12 from Patent WO0118195.
ACCESSION AX093430
VERSION AX093430.1 GI:13509880
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Francis,K.P., Contag,P.R. and Joh,D.J.
TITLE Luciferase expression cassettes and methods of use
JOURNAL Patent: WO 0118195-A 12 15-MAR-2001;
Xenogen Corporation (US)
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Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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RESULT 38
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LOCUS AX167860 20 bp DNA linear PAT 03-JUL-2001
DEFINITION Sequence 44 from Patent WO0142307.
ACCESSION AX167860
VERSION AX167860.1 GI:14597179
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Saito,K., Ohe,N. and Satoh,H.
TITLE Mutant er G(a) and test systems for transactivation
JOURNAL Patent: WO 0142307-A 44 14-JUN-2001;
Sumitomo Chemical Company, Limited (JP)
FEATURES
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RESULT 39
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LOCUS AX361094 20 bp DNA linear PAT 15-FEB-2002
DEFINITION Sequence 15 from Patent WO0208431.
ACCESSION AX361094
VERSION AX361094.1 GI:18693753
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
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AUTHORS Francis,K.P. and Purchio,A.F.  
TITLE Compositions and methods for use thereof in modifying the genomes of microorganisms

JOURNAL Patent: WO 0208431-A 15 31-JAN-2002;  
Xenogen Corporation (US)

FEATURES Location/Qualifiers  
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BD015694/c  
LOCUS BD015694 Novel protein and DNA thereof. 20 bp DNA linear PAT 27-AUG-2002

DEFINITION BD015694  
ACCESSION BD015694  
VERSION BD015694.1 GI:22556831  
KEYWORDS JP 2001204480-A/9.  
SOURCE synthetic construct  
ORGANISM synthetic construct

REFERENCE 1 (bases 1 to 20)  
Nakanishi,A. and Morita,S.

AUTHORS Novel protein and DNA thereof

TITLE Patent: JP 2001204480-A 9 31-JUL-2001;

JOURNAL TAKEDA CHEMICAL INDUSTRIES LTD

COMMENT OS Artificial Sequence  
PN JP 2001204480-A/9

PD 31-JUL-2001

PF 14-NOV-2000 JP 2000347107

PI ATSUSHI NAKANISHI,SHIGERU MORITA

PC C12N15/09,A61K38/00,A61K45/00,A61K48/00,A61P11/00,A61P11/06,  
A61P31/04,  
PC A61P31/06,A61P31/12,A61P31/18,A61P37/02,A61P37/08,A61P43/00,  
C07K16/40,  
PC C12N1/15,C12N1/19,C12N1/21,C12N5/10,C12N9/34,G01N33/15,G01N33/50//  
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CC Primer

FH Key Location/Qualifiers

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Db 19 CTGACGGTCTGAGGAGT 2

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Job time : 1571 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 08:59:07 ; Search time 238 Seconds  
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522.330 Million cell updates/sec

Title: US-09-743-825-8

Perfect score: 21

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Scoring table: IDENTITY\_NUC

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Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 2380332

Minimum DB seq length: 0

Maximum DB seq length: 21

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

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4: geneseqn2001as:\*

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6: geneseqn2002as:\*

7: geneseqn2002bs:\*

8: geneseqn2003as:\*

9: geneseqn2003bs:\*

10: geneseqn2003cs:\*

11: geneseqn2003ds:\*

12: geneseqn2004as:\*

13: geneseqn2004bs:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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| C 10       | 12.8  | 61.0        | 21     | 10 | Adf50117 Human BCL |
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| C 17       | 12.4  | 59.0        | 20     | 12 | Adi79541 Human HMG |
| C 18       | 12.4  | 59.0        | 20     | 12 | Adi79738 Human EGF |
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| C 20       | 12.2  | 58.1        | 17     | 8  | Adb02331 Human MDZ |

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| Ad61207  | Human Shi  |        | 20 | 10 | AD61207  | 58.1 | 12.2 | 23 |
| Adh50671 | Human IRA  |        | 20 | 12 | ADH50671 | 58.1 | 12.2 | 24 |
| Adi50969 | Human tum  |        | 17 | 10 | ADI50969 | 57.1 | 12   | 25 |
| Aac92623 | Human nuc  |        | 20 | 4  | AAC92623 | 57.1 | 12   | 26 |
| Adp68593 | Human PPA  |        | 20 | 12 | ADP68593 | 57.1 | 12   | 27 |
| Adp68748 | Human PPA  |        | 20 | 12 | ADP68748 | 57.1 | 12   | 28 |
| Aaa46172 | PCR prime  |        | 21 | 3  | AAA46172 | 57.1 | 12   | 29 |
| Aaf97151 | Human gen  |        | 21 | 4  | AAF97151 | 57.1 | 12   | 30 |
| Aax91964 | BCL-2 mRNA |        | 17 | 2  | AAQ51964 | 56.2 | 11.8 | 31 |
| Aav97667 | Human EGF  |        | 17 | 2  | AAV97667 | 56.2 | 11.8 | 32 |
| ABK03278 | Human CD2  |        | 17 | 4  | ABK03278 | 56.2 | 11.8 | 33 |
| Adf92273 | Human cyt  |        | 17 | 12 | ADF92273 | 56.2 | 11.8 | 34 |
| Adg61034 | Anti-FLT1  |        | 17 | 12 | ADG61034 | 56.2 | 11.8 | 35 |
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| Adr75873 | Human apo  |        | 19 | 13 | ADR75873 | 56.2 | 11.8 | 38 |
| Adr77702 | Human apo  |        | 19 | 13 | ADR77702 | 56.2 | 11.8 | 39 |
| Adr78491 | Human apo  |        | 19 | 13 | ADR78491 | 56.2 | 11.8 | 40 |
| Adr77068 | Human apo  |        | 19 | 13 | ADR77068 | 56.2 | 11.8 | 41 |
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| Adi29104 | Antisense  |        | 20 | 12 | ADI29104 | 56.2 | 11.8 | 44 |
| Adi29174 | Human MAR  |        | 20 | 12 | ADI29174 | 56.2 | 11.8 | 45 |
| Adq88807 | Human HIF  |        | 20 | 13 | ADQ88807 | 56.2 | 11.8 | 46 |
| Adg77200 | Canine di  |        | 21 | 2  | ADG77200 | 56.2 | 11.8 | 47 |
| Aaa57654 | PCR prime  |        | 21 | 3  | AAA57654 | 56.2 | 11.8 | 48 |
| Add20227 | Oreochrom  |        | 21 | 10 | ADD20227 | 56.2 | 11.8 | 49 |
| Adj97442 | Human Flt  |        | 21 | 12 | ADJ97442 | 56.2 | 11.8 | 50 |
| Adl66406 | Human DEM  |        | 18 | 12 | ADL66406 | 55.2 | 11.6 | 51 |
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| Aax93441 | PCR prime  |        | 20 | 2  | AAx93441 | 55.2 | 11.6 | 53 |
| Aas45609 | Human PAR  |        | 20 | 4  | AAx45609 | 55.2 | 11.6 | 54 |
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| Aaf80753 | Human mdm  |        | 20 | 4  | AAF80753 | 55.2 | 11.6 | 56 |
| Aas00300 | Primer LU  |        | 20 | 4  | AAx00300 | 55.2 | 11.6 | 57 |
| Aah42021 | Disease t  |        | 20 | 4  | AAH42021 | 55.2 | 11.6 | 58 |
| Aah46137 | Mouse Gob  |        | 20 | 5  | AAH46137 | 55.2 | 11.6 | 59 |
| Aas29368 | Human mdm  |        | 20 | 5  | AAx29368 | 55.2 | 11.6 | 60 |
| ABK48015 | Transposo  |        | 20 | 6  | ABK48015 | 55.2 | 11.6 | 61 |
| ABQ81566 | Luciferas  |        | 20 | 6  | ABQ81566 | 55.2 | 11.6 | 62 |
| ABZ76183 | A. thalia  |        | 20 | 8  | ABZ76183 | 55.2 | 11.6 | 63 |
| Add21564 | Human mdm  |        | 20 | 10 | ADD21564 | 55.2 | 11.6 | 64 |
| ABx14046 | PCR prime  |        | 20 | 10 | ABX14046 | 55.2 | 11.6 | 65 |
| Ado51090 | Human BCL  |        | 20 | 12 | ADO51090 | 55.2 | 11.6 | 66 |
| Adp85595 | Human EMA  |        | 20 | 12 | ADP85595 | 55.2 | 11.6 | 67 |
| Aac14321 | Primer #1  |        | 21 | 2  | AA14321  | 55.2 | 11.6 | 68 |
| Aaz72130 | Human dia  |        | 19 | 3  | AAZ72130 | 54.3 | 11.4 | 69 |
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| Adh58773 | Human CDC  |        | 20 | 12 | ADH58773 | 54.3 | 11.4 | 73 |
| Adi79866 | Mouse HMG  |        | 20 | 12 | ADI79866 | 54.3 | 11.4 | 74 |
| Adi79673 | Mouse HMG  |        | 20 | 12 | ADI79673 | 54.3 | 11.4 | 75 |
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| Adl61397 | Human pro  |        | 20 | 12 | ADL61397 | 54.3 | 11.4 | 77 |
| Adm14341 | Human mpg  |        | 20 | 12 | ADM14341 | 54.3 | 11.4 | 78 |
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| Adm14234 | Human mpg  |        | 20 | 12 | ADM14234 | 54.3 | 11.4 | 81 |
| Adm14290 | Human mpg  |        | 20 | 12 | ADM14290 | 54.3 | 11.4 | 82 |
| Adm14365 | Human mpg  |        | 20 | 12 | ADM14365 | 54.3 | 11.4 | 83 |
| Adm14507 | Human mpg  |        | 20 | 12 | ADM14507 | 54.3 | 11.4 | 84 |
| Aaf97721 | Human gen  |        | 21 | 4  | AAF97721 | 54.3 | 11.4 | 85 |
| Ado27101 | Human HIF  |        | 21 | 12 | ADO27101 | 54.3 | 11.4 | 86 |
| Adr74087 | Allele sp  |        | 21 | 13 | ADR74087 | 54.3 | 11.4 | 87 |
| Aav97670 | Human EGF  |        | 17 | 2  | AAV97670 | 53.3 | 11.2 | 88 |
| ABK55785 | Human CUC  |        | 17 | 6  | ABK55785 | 53.3 | 11.2 | 89 |
| ABK55786 | Human CUC  |        | 17 | 6  | ABK55786 | 53.3 | 11.2 | 90 |
| ACN02458 | WNV Inozy  |        | 17 | 6  | ACN02458 | 53.3 | 11.2 | 91 |
| ACN00743 | WNV Hamme  |        | 17 | 6  | ACN00743 | 53.3 | 11.2 | 92 |
|          |            |        | 17 | 6  |          | 53.3 | 11.2 | 93 |

c 94 11.2 53.3 17 8 ADB02332 Adb02332 Human MDZ  
 c 95 11.2 53.3 17 8 ADB02330 Adb02330 Human MDZ  
 96 11.2 53.3 17 11 ADL47815 Adl47815 Human IKK  
 97 11.2 53.3 18 3 AAZ71326 Aaz71326 Human b1a  
 98 11.2 53.3 19 2 AAV27078 Aav27078 Primer YA  
 c 99 11.2 53.3 19 3 AAA82881 Aaa82881 cdk4 ribo  
 c 100 11.2 53.3 19 3 AAA82880 Aaa82880 cdk4 ribo

## ALIGNMENTS

RESULT 1  
 AAZ50445  
 ID AAZ50445 standard; DNA; 21 BP.  
 XX  
 AC AAZ50445;  
 XX  
 DT 18-MAY-2000 (first entry)  
 XX  
 DE EST R00504-specific primer 2.  
 XX  
 KW PB39; human; prostate cancer; PC; chromosome 11p11.1-11.2; cancer;  
 KW prostate epithelium; splicing mechanism; early diagnosis; progression;  
 KW precancerous cell; metastatic potential; non-neoplastic prostate disease;  
 KW expressed sequence tag; EST; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200005376-A1.  
 XX  
 PD 03-FEB-2000.  
 XX  
 PF 23-JUL-1999; 99WO-US016831.  
 XX  
 PR 24-JUL-1998; 98US-0094137P.  
 XX  
 XX (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 PA  
 FI Chuaqui RF, Cole KA, Liotta LA;  
 XX  
 DR WPI; 2000-182700/16.  
 XX  
 XX Novel gene which is dysregulated in prostate cancer useful for diagnosing  
 PT cancer.  
 PS Claim 5; Page 16; 51pp; English.  
 XX  
 CC The present sequence is the EST AAR00504-specific PCR primer, used for  
 CC amplification of sequences contained within the EST AAR00504. It is  
 CC useful to probe the gene overexpressed in prostate cancer epithelium and  
 CC to analyse the differential expression of the EST. The PB39 gene that is  
 CC dysregulated in prostate cancer is isolated from human pancreas cDNA  
 CC library and has homology to the EST AAR00504. PB39 gene is located on  
 CC chromosome 11p11.1-11.2. Abnormally high concentrations of PB39 are found  
 CC in prostate tissue derived from prostate cancer (PC) epithelium. PB39  
 CC sequence is useful for detection of precancerous or cancer cells in the  
 CC prostate. PB39 is useful for early diagnosis of the progression of  
 CC prostate cancer, especially in aggressive prostate carcinoma. It can also  
 CC distinguish PC from other non-neoplastic prostate disease. The diagnostic  
 CC method is selective and specific for various types of PC and also  
 CC facilitates identifying prostate cancer of differing aggressiveness and  
 CC metastatic potential  
 XX  
 SQ Sequence 21 BP; 4 A; 4 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 3; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 0.68;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAGAGTCTG 21  
 |||||  
 Db 1 CTGGCGTATCTGAAGAGTCTG 21

RESULT 2  
 ADJ85951/c  
 ID ADJ85951 standard; DNA; 20 BP.  
 XX  
 AC ADJ85951;  
 XX

DT 06-MAY-2004 (first entry)  
 XX

XX Nucleic acid analysis-related Tag probe SeqID1019.

XX restriction endonuclease site; T3 promoter site; Tag gene; Poly A site;  
 KW T7 Promoter; nucleic acid analysis; synthetic Tag gene; assay control;  
 KW assay development; product development; product validation;  
 KW quality control; probe; ss.

XX Synthetic.  
 OS Unidentified.

XX WO2004007684-A2.  
 PN

XX 22-JAN-2004.  
 PD

XX 14-JUL-2003; 2003WO-US021990.  
 PF

XX 12-JUL-2002; 2002US-0395530P.  
 PR

XX (AFFY-) AFFYMETRIX INC.  
 PA

XX Christians FC;  
 PI

XX WPI; 2004-122923/12.  
 DR

XX New DNA molecules made by annealing and extending overlapping 60mer  
 PT oligonucleotides, useful in producing synthetic Tag genes useful as assay  
 PT controls, in assay development, product development and for quality  
 PT control.

XX Disclosure; SEQ ID NO 1019; 91pp; English.

XX This invention relates to a novel DNA molecule which comprises a DNA  
 CC molecule made up of the following elements in a 5' to 3' direction: a  
 CC first restriction endonuclease site; a T3 promoter site; at least one Tag  
 CC gene comprising at least 5 20mer Tag sequences; a Poly A site having at  
 CC least 21 consecutive A residues; a second restriction endonuclease site  
 CC which may be the same or different than the first restriction  
 CC endonuclease site; or a T7 Promoter on the opposite strand as the T3  
 CC promoter. The invention may be useful in nucleic acid analysis, in  
 CC particular to synthetic Tag genes useful as assay controls, in assay  
 CC development, product development and validation and for quality control.  
 CC The present sequence is that of a Tag oligonucleotide probe which may be  
 CC used during the creation of the novel DNA molecule of the invention.

XX Sequence 20 BP; 5 A; 6 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 65.7%; Score 13.8; DB 12; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 3.5e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CGTATCTGAAGAGTCTG 21  
 |||||  
 Db 20 CATATCTGGAGAGTCTG 4

RESULT 3  
 AAZ05689/c  
 ID AAZ05689 standard; DNA; 20 BP.  
 XX  
 AC AAZ05689;  
 XX

DT 07-OCT-1999 (first entry)  
 XX

PCR primer used to amplify an ORF of Chlamydia trachomatis.

DE Vaccine; eye disease; conventional trachoma; nonendemic trachoma;  
 KW paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis;  
 KW nongonococcal urethritis; epididymitis; cervicitis; salpingitis; PCR primer;  
 KW bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.

OS Synthetic.  
 OS Chlamydia trachomatis.

XX WO9928475-A2.

PN 10-JUN-1999.

XX 27-NOV-1998; 98WO-IB001939.

XX 28-NOV-1997; 97FR-00015041.

PR 17-DEC-1997; 97FR-00016034.

PR 04-NOV-1998; 98US-0107077P.

XX (GIST ) GENSET.

XX Griffais R;

XX WPI; 1999-371125/31.

XX Genome sequence of Chlamydia trachomatis.

XX Disclosure; Page 1791; 1755pp; English.

XX PCR primers AAZ01426-206209 were used to amplify open reading frames (ORFs) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs encode polypeptides (see AAY36754-Y37949) which can be used as vaccines against Chlamydia trachomatis. Antisense and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, e.g. eye diseases such as conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion conjunctivitis; genital diseases such as nongonococcal urethritis, epididymitis, cervicitis, salpingitis, perihepatitis, bartholinitis; pneumopathy in breast feeding infants; and venereal lymphogranulomatosis. The polypeptides of the invention may be of use in treating these diseases

XX Sequence 20 BP; 6 A; 7 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 64.8%; Score 13.6; DB 2; Length 20;  
 Best Local Similarity 80.0%; Pred. No. 4.4e+03;  
 Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 2 TGGCGTATCTGAAGAGCTGT 21

DB 20 TGTCGTTTCAGAAGAGGCTG 1

RESULT 4

AAC63691

ID AAC63691 standard; DNA; 20 BP.

XX AAC63691;

XX 13-FEB-2001 (first entry)

XX Rat P2X<sub>7</sub>/P2Z PCR primer #3.

XX Rat; P2X<sub>7</sub>; neuroprotective; nontropic; antiinflammatory; antirheumatic;  
 KW antirhectic; antibacterial; antiviral; antiallergic; cytostatic;  
 KW cardiac; cerebroprotective; immunosuppressive; P2Z; purinergic receptor;  
 KW nervous system disorder; chronic inflammation; Alzheimer's disease;  
 KW rheumatoid arthritis; amyloidosis; bacterial; viral; microbial infection;  
 KW haematopoietic system disorder; immune response; autoimmune disorder;  
 KW allergy; lymphoproliferative disorder; cardiac; cerebral ischaemia;  
 KW tuberculosis; PCR primer; ss.

OS Rattus sp.  
 XX US6133434-A.  
 XX 17-OCT-2000.  
 PD 28-APR-1997; 97US-00842079.  
 XX 28-APR-1997; 97US-00842079.  
 XX (GLAX ) GLAXO GROUP LTD.  
 XX Buell GN, Kawashima E, Surprenant A;  
 XX WPI; 2001-006153/01.

XX Mammalian purinergic receptor (P2X<sub>7</sub>) useful for screening for modulators which are useful for treating arthritic, respiratory disorders and neurodegenerative disorders, and to generate receptors specific antibodies.

XX Example 1; Col 7-8; 40pp; English.

XX The present invention relates to rat and human purinergic receptor P2X<sub>7</sub>/P2Z (AAC63693-C63694). The P2X<sub>7</sub> coding sequences can be used to treat disorders of the nervous system, particularly diseases with a component of chronic inflammation, such as Alzheimer's disease, diseases involving acute or chronic inflammation such as rheumatoid arthritis, amyloidosis, bacterial, viral and other microbial infections, disorders of the haematopoietic system and immune response such as autoimmune disorders, allergies and lymphoproliferative disorders, diseases involving apoptotic cell death, such as cardiac and cerebral ischaemia and microbial infections, particularly tuberculosis. The present sequence is a PCR primer used to isolate the rat P2X<sub>7</sub> coding sequence

XX Sequence 20 BP; 4 A; 3 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 61.9%; Score 13; DB 4; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9e+03;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 GGCCTATCTGAAG 15

DB 1 GGCCTATCTGAAG 13

RESULT 5

ADA09833

ID ADA09833 standard; DNA; 20 BP.

XX ADA09833;

XX 06-NOV-2003 (first entry)

XX Antisense nested PCR primer #1 for amplification of rat P2X<sub>7</sub> (P2Z).

XX PCR; ss; primer; permeabilising activity; P2X<sub>7</sub> receptor; P2Z receptor;  
 KW receptor; ATP; antigen presenting cell; T lymphocyte;  
 KW mitogenic stimulation; multinucleated giant cell; adenosine triphosphate;  
 KW 3'-O-(4-benzoyl)benzoyl ATP; BzATP; fluorescent dye; propidium iodide;  
 KW nontropic; neuroprotective; immunosuppressive; cerebroprotective;  
 KW vasotropic; arthritic disorder; respiratory disorder;  
 KW neurodegenerative disease; Alzheimer's disease; inflammation;  
 KW rheumatoid arthritis; amyloidosis; infection; tuberculosis;  
 KW haematopoietic system; immune response; allergy;  
 KW lymphoproliferative disorder; apoptosis; ischaemia; rat;  
 KW autoimmune disorder.

XX Rattus sp.

XX US6509163-B1.

XX 21-JAN-2003.

```
XX 15-AUG-2000; 2000US-00638857.
PF
XX 28-APR-1997; 97US-00842079.
XX
XX (GLAX ) GLAXO GROUP LTD.
XX
XX Buell GN, Surprenant A, Kawashima E;
XX WPI; 2003-502654/47.
XX
XX Screening of compound for its ability to modulate permeabilizing activity
XX of mammalian receptor useful for treating e.g. arthritis, and alzheimer's
XX disease.
XX
XX Example 1; SEQ ID NO 3; 43pp; English.
XX
XX The invention discloses a method for screening a compound for its ability
XX to modulate the permeabilising activity of a mammalian P2X7 (P22)
XX receptor. The P2X receptor is a cell surface receptor for ATP and has
XX been implicated in the lysis of antigen presenting cells by cytotoxic T
XX lymphocytes, in the mitogenic stimulation of human T lymphocytes, as well
XX as in the formation of multinucleated giant cells. The preferred agonist
XX is adenosine triphosphate (ATP) or 3'-O-(4-benzoyl)benzoyl ATP (BzATP)
XX and the preferred method comprises monitoring the uptake into the cell of
XX a detectable molecule, preferably a fluorescent dye (e.g. propidium
XX iodide). The inventive method is useful for screening a compound for its
XX ability to modulate the permeabilising activity of a mammalian P2X7
XX receptor useful for treatment of arthritic and respiratory disorders and
XX neurodegenerative diseases. It is particularly useful in the treatment of
XX Alzheimer's disease, diseases involving acute or chronic inflammation
XX including rheumatoid arthritis, amyloidosis, bacterial, viral and other
XX microbial infections, e.g. tuberculosis, disorders of the haematopoietic
XX system and immune response, including autoimmune disorders, allergies and
XX lymphoproliferative disorders, diseases involving apoptotic cell death,
XX such as cardiac and cerebral ischaemia. The sequence presented is a
XX nested PCR primer used for the amplification of rat P2X7 cDNA.
XX
XX Sequence 20 BP; 4 A; 3 C; 7 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 61.9%; Score 13; DB 9; Length 20;
XX Best Local Similarity 100.0%; Pred. No. 9e+03;
XX Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX Qy 3 GCGGTATCTGAAG 15
XX Db 1 GCGGTATCTGAAG 13
XX
XX RESULT 6
XX AAV97668/c
XX ID AAV97668 standard; RNA; 17 BP.
XX
XX AC AAV97668;
XX
XX XX 17-MAR-1999 (first entry)
XX
XX DE Human EGF-R target sequence nucleotide position 3858.
XX
XX KW Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;
XX hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;
XX KW cancer; genetic drift; detection; mutation; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO9833893-A2.
XX
XX PD 06-AUG-1998.
XX
XX PF 14-JAN-1998; 98WO-US0000730.
XX
XX PR 31-JAN-1997; 97US-0036476P.
XX
XX PR 04-DEC-1997; 97US-00985162.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX (UYAS-) UNIV ASTON.
XX
XX Akhtar S, Fell P, Mcswiggen JA;
XX WPI; 1998-437449/37.
XX
XX Enzymatic nucleic acids - which cleave RNA derived from an epidermal
XX growth factor receptor, useful for inhibiting cell proliferation and for
XX treating cancers.
XX
XX Claim 5; Page 77; 109pp; English.
XX
XX The present invention describes enzymatic nucleic acid molecules (NAMES)
XX which specifically cleave RNA derived from an epidermal growth factor
XX receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090
XX represent specifically claimed target sequence from human EGF-R. AAV98044
XX to AAV98866 and AAV98867 to V9878 represent hammerhead ribozymes and
XX hairpin ribozymes respectively for human EGF-R. The NAMS are useful for
XX cleaving EGF-R RNA in the treatment of a condition associated with EGFR
XX expression levels e.g. to inhibit cell proliferation in the prevention or
XX treatment of cancers. The NAMS can also be used as diagnostic tools to
XX examine genetic drift and mutations within diseased cells or to detect
XX the presence of EGF-R RNA in a cell
XX
XX Sequence 17 BP; 4 A; 6 C; 2 G; 0 T; 5 U; 0 Other;
XX
XX Query Match 61.0%; Score 12.8; DB 2; Length 17;
XX Best Local Similarity 87.5%; Pred. No. 1.1e+04;
XX Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX Qy 6 GTATCGAAGAGTCTG 21
XX Db 16 GTATCGAAGAGTCTG 1
XX
XX RESULT 7
XX ADJ85562/c
XX ID ADJ85562 standard; DNA; 20 BP.
XX
XX AC ADJ85562;
XX
XX DT 06-MAY-2004 (first entry)
XX
XX XX Nucleic acid analysis-related Tag probe SeqID630.
XX
XX DE restriction endonuclease site; T3 promoter site; Tag gene; Poly A site;
XX KW T7 promoter; nucleic acid analysis; synthetic Tag gene; assay control;
XX KW assay development; product development; product validation;
XX KW quality control; probe; ss.
XX
XX OS Synthetic.
XX
XX OS Unidentified.
XX
XX PN WO2004007684-A2.
XX
XX PD 22-JAN-2004.
XX
XX PF 14-JUL-2003; 2003WO-US021990.
XX
XX PR 12-JUL-2002; 2002US-0395530P.
XX
XX XX (AFFY-) AFFYMETRIX INC.
XX
XX PI Christians FC;
XX
XX DR WPI; 2004-122923/12.
XX
XX New DNA molecules made by annealing and extending overlapping 60mer
XX PT oligonucleotides, useful in producing synthetic tag genes useful as assay
XX PT controls, in assay development, product development and for quality
XX PT control.
```

XX Disclosure; SEQ ID NO 630; 91pp; English.

XX This invention relates to a novel DNA molecule which comprises a DNA

CC molecule made up of the following elements in a 5' to 3' direction: a

CC first restriction endonuclease site; a T3 promoter site; at least one Tag

CC gene comprising at least 5 20mer Tag sequences; a Poly A site having at

CC least 21 consecutive A residues; a second restriction endonuclease site

CC which may be the same or different than the first restriction

CC endonuclease site; or a T7 Promoter on the opposite strand as the T3

CC promoter. The invention may be useful in nucleic acid analysis, in

CC particular to synthetic Tag genes useful as assay controls, in assay

CC development, product development and validation and for quality control.

CC The present sequence is that of a Tag oligonucleotide probe which may be

CC used during the creation of the novel DNA molecule of the invention.

XX Sequence 20 BP; 5 A; 4 C; 6 G; 5 T; 0 U; 0 Other;

SQ Query Match 61.0%; Score 12.8; DB 12; Length 20;

Best Local Similarity 87.5%; Pred. No. 1.1e+04;

Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 4 GCGTATCTGAAGAGTC 19

Db 17 GCGTATCTGCATAGTC 2

RESULT 8

ID ADK96254 standard; DNA; 20 BP.

XX ADK96254;

XX 06-MAY-2004 (first entry)

DT Primer of the invention #1974.

DE human; single nucleotide polymorphism; SNP; ss; primer.

XX Synthetic.

OS JP2003259875-A.

PN 16-SEP-2003.

PD 08-MAR-2002; 2002JP-00064373.

XX 08-MAR-2002; 2002JP-00064373.

XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.

XX WPI; 2004-093977/10.

XX Novel polynucleotide useful for PCR amplification along with two DNA

PT fragment from another set of sequences, or for detecting single

PT nucleotide polymorphism in human gene.

XX Claim 2; SEQ ID NO 5283; 2627pp; Japanese.

XX The present invention relates to a polynucleotide isolated from a human

CC gene and is useful for detecting a single nucleotide polymorphism in a

CC human gene or for diagnosing of disease. The invention enables the

CC detection of a single nucleotide polymorphism in a human gene. The

CC present sequence represents a primer of the invention.

XX Sequence 20 BP; 5 A; 3 C; 8 G; 4 T; 0 U; 0 Other;

SQ Query Match 61.0%; Score 12.8; DB 12; Length 20;

Best Local Similarity 87.5%; Pred. No. 1.1e+04;

Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 CTGGCGTATCTGAAGA 16

Db 17 GCGTATCTGCATAGTC 2

RESULT 9

ID ADF50105 standard; RNA; 21 BP.

XX ADF50105;

XX 12-FEB-2004 (first entry)

DT Human BCL2 siRNA target sequence SEQ ID NO:833.

DE ss; siRNA; human; BCL2; short interfering nucleic acid; RNA interference;

XX cytosstatic; immunosuppressive; virucide; anti-HIV; cancer;

XX autoimmune disease; viral infection; HIV.

XX Homo sapiens.

OS WO2003070969-A2.

PN 28-AUG-2003.

PD 18-FEB-2003; 2003WO-US004908.

XX 20-FEB-2002; 2002US-0358580P.

XX 11-MAR-2002; 2002US-0363124P.

PR 06-JUN-2002; 2002US-0386782P.

PR 18-JUL-2002; 2002US-0396905P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 15-JAN-2003; 2003US-0440129P.

XX (RIBO-) RIBOZYME PHARM INC.

XX Mcswiggen J, Beigelman L;

XX WPI; 2003-712622/67.

XX New short interfering nucleic acid, useful e.g. for treatment and

PT diagnosis of cancer or autoimmune disease, downregulates expression of

PT the BCL2 gene.

XX Example 3; SEQ ID NO 833; 148pp; English.

XX The invention relates to a novel short interfering nucleic acid (siRNA)

CC that downregulates expression of the BCL2 gene by RNA interference. A

CC siRNA of the invention has cytostatic, immunosuppressive, virucide, and

CC anti-HIV activity. The siRNA are useful for modulation (inhibition) of

CC expression or activity of BCL2 by RNA interference. siRNA are used to

CC modulate expression of BCL2 genes, in cells, tissue explants or

CC organisms, e.g. for treating cancer, autoimmune diseases and viral

CC infections (including by HIV) but also for drug screening, diagnosis,

CC target identification and validation, genetic engineering,

CC pharmacogenomics, studying gene function and gene mapping (e.g. of single

CC -nucleotide polymorphisms). The sequences shown in ADF49273-ADF50143

CC represent siRNA of the invention.

XX Sequence 21 BP; 3 A; 5 C; 5 G; 2 T; 6 U; 0 Other;

SQ Query Match 61.0%; Score 12.8; DB 10; Length 21;

Best Local Similarity 56.2%; Pred. No. 1.2e+04;

Matches 9; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Oy 6 GTATCTGAAGAGTCG 21

Db 4 GUCUGAAGACUCUG 19

RESULT 10

ID ADF50117/c

ID ADF50117 standard; RNA; 21 BP.

```

XX ADF50117;
XX AC
XX DT 12-FEB-2004 (first entry)
XX DE
XX DE Human BCL2 siRNA target sequence SEQ ID NO:845.
XX KW ss; siRNA; human; BCL2; short interfering nucleic acid; RNA interference;
XX KW cytosatic; immunosuppressive; virucide; anti-HIV; cancer;
XX KW autoimmune disease; viral infection; HIV.
XX OS Homo sapiens.
XX PN WO2003070969-A2.
XX PD 28-AUG-2003.
XX PF 18-FEB-2003; 2003WO-US004908.
XX PR 20-FEB-2002; 2002US-0358580P.
XX PR 11-MAR-2002; 2002US-0363124P.
XX PR 06-JUN-2002; 2002US-0386782P.
XX PR 18-JUL-2002; 2002US-0396905P.
XX PR 29-AUG-2002; 2002US-0406784P.
XX PR 05-SEP-2002; 2002US-0408378P.
XX PR 09-SEP-2002; 2002US-0409293P.
XX PR 15-JAN-2003; 2003US-0440129P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PI Mcswiggen J, Beigelman L;
XX PT WPI; 2003-712622/67.
XX DR
XX New short interfering nucleic acid, useful e.g. for treatment and
XX diagnosis of cancer or autoimmune disease, downregulates expression of
XX the BCL2 gene.
XX PS Example 3; SEQ ID NO 845; 148pp; English.
XX CC The invention relates to a novel short interfering nucleic acid (siRNA)
XX that downregulates expression of the BCL2 gene by RNA interference. A
XX siRNA of the invention has cytostatic, immunosuppressive, virucide, and
XX anti-HIV activity. The siRNA are useful for modulation (inhibition) of
XX expression or activity of BCL2 by RNA interference. siRNA are used to
XX modulate expression of BCL2 genes, in cells, tissue explants or
XX organisms, e.g. for treating cancer, autoimmune diseases and viral
XX infections (including by HIV) but also for drug screening, diagnosis,
XX target identification and validation, genetic engineering,
XX pharmacogenomics, studying gene function and gene mapping (e.g. of single
XX -nucleotide polymorphisms). The sequences shown in ADF49273-ADF50143
XX represent siRNA of the invention.
XX SQ Sequence 21 BP; 6 A; 5 C; 5 G; 2 T; 3 U; 0 Other;

Query Match 61.0%; Score 12.8; DB 10; Length 21;
Best Local Similarity 87.5%; Pred. No. 1.2e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 6 GTATCTGAAGAGTCTG 21
Db 16 GTCTCTGAAGACTCTG 1

RESULT 11
ADF50125/c
ID ADF50125 standard; RNA; 21 BP.
XX AC ADF50125;
XX DT 12-FEB-2004 (first entry)
XX DE Human BCL2 siRNA target sequence SEQ ID NO:853.
XX KW ss; siRNA; human; BCL2; short interfering nucleic acid; RNA interference;
XX KW cytosatic; immunosuppressive; virucide; anti-HIV; cancer;
XX KW autoimmune disease; viral infection; HIV.
XX OS Homo sapiens.

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XX WO2003070969-A2.  
 PN XX  
 XX 28-AUG-2003.  
 PD XX  
 XX 18-FEB-2003; 2003WO-US004908.  
 XX XX  
 XX 20-FEB-2002; 2002US-0358580P.  
 PR 11-MAR-2002; 2002US-0363124P.  
 PR 06-JUN-2002; 2002US-0386782P.  
 PR 18-JUL-2002; 2002US-0396905P.  
 PR 29-AUG-2002; 2002US-0406784P.  
 PR 05-SEP-2002; 2002US-0408378P.  
 PR 09-SEP-2002; 2002US-0409293P.  
 PR 15-JAN-2003; 2003US-0440129P.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA XX  
 XX McSwiggen J, Beigelman L;  
 PI WPI; 2003-712622/67.  
 XX  
 DR New short interfering nucleic acid, useful e.g. for treatment and  
 XX diagnosis of cancer or autoimmune disease, downregulates expression of  
 PT the BCL2 gene.  
 PT  
 PS Example 3; SEQ ID NO 837; 148pp; English.  
 XX  
 XX The invention relates to a novel short interfering nucleic acid (siNA)  
 CC that downregulates expression of the BCL2 gene by RNA interference. A  
 CC siNA of the invention has cytostatic, immunosuppressive, virucide, and  
 CC anti-HIV activity. The siNA are useful for modulation (inhibition) of  
 CC expression or activity of BCL2 by RNA interference. siNA are used to  
 CC modulate expression of BCL2 genes, in cells, tissue explants or  
 CC organisms, e.g. for treating cancer, autoimmune diseases and viral  
 CC infections (including by HIV) but also for drug screening, diagnosis,  
 CC target identification and validation, genetic engineering,  
 CC pharmacogenomics, studying gene function and gene mapping (e.g. of single  
 CC -nucleotide polymorphisms). The sequences shown in ADF49273-ADF50143  
 CC represent siNA of the invention.  
 XX  
 XX Sequence 21 BP; 6 A; 5 C; 5 G; 2 T; 3 U; 0 Other;  
 SQ  
 Query Match 61.0%; Score 12.8; DB 10; Length 21;  
 Best Local Similarity 87.5%; Pred. No. 1.2e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 6 GTATCTGAAGAGTCTG 21  
 |||||  
 Db 16 GTCTGAGAGTCTG 1  
 |||||  
 RESULT 13  
 ADG29696  
 ID ADG29696 standard; RNA; 21 BP.  
 XX  
 AC ADG29696;  
 XX  
 DT 26-FEB-2004 (first entry)  
 XX  
 DE BCL2-targeted siNA DNA-RNA hybrid - SEQ ID 262.  
 XX  
 XX double-stranded short interfering nucleic acid; siNA;  
 KW antiarteriosclerotic; neuroprotective; nootropic; antiparkinsonian;  
 KW anticonvulsant; pulmonary disease; restenosis; atherosclerosis;  
 KW Alzheimer's; Parkinson's; epilepsy; dementia; huntington's;  
 KW amyotrophic lateral sclerosis; gene therapy; ss; DNA-RNA hybrid; BCL2.  
 XX  
 OS Unidentified.  
 OS Synthetic.  
 XX  
 PN WO2003074654-A2.  
 XX

PD 12-SEP-2003.  
 XX  
 XX 20-FEB-2003; 2003WO-US005028.  
 XX  
 XX 20-FEB-2002; 2002US-0358580P.  
 PR 11-MAR-2002; 2002US-0363124P.  
 PR 06-JUN-2002; 2002US-0386782P.  
 PR 29-AUG-2002; 2002US-0406784P.  
 PR 05-SEP-2002; 2002US-0408378P.  
 PR 09-SEP-2002; 2002US-0409293P.  
 PR 15-JAN-2003; 2003US-0440129P.  
 XX (SIRN-) SIRNA THERAPEUTICS INC.  
 PA XX  
 XX McSwiggen J, Beigelman L, Chowrika B, Pavco P, Fosnaugh K;  
 PI Jamison S, Usman N, Thompson J;  
 PI WPI; 2003-731676/69.  
 XX  
 DR New double-stranded short interfering nucleic acid molecule, useful for  
 XX down-regulating the expression of an endogenous mammalian target gene or  
 PT for treating diseases that respond to modulation of gene expression or  
 PT activity.  
 PT  
 PS Example 24; SEQ ID NO 262; 593pp; English.  
 XX  
 XX The invention relates to a double-stranded short interfering nucleic acid  
 CC (siNA) molecule that down-regulates expression of an endogenous mammalian  
 CC target gene comprising one or more chemical modifications and each strand  
 CC of the double-stranded siNA comprises about 21 nucleotides. The siNA of  
 CC the invention demonstrates antiarteriosclerotic, neuroprotective,  
 CC nootropic, antiparkinsonian and anticonvulsant activities and may be  
 CC useful for down-regulating the expression of an endogenous mammalian  
 CC target gene and therefore in the treatment of any disease or condition  
 CC that responds to modulation of gene expression or activity in a cell,  
 CC tissue or organism. The disease or condition may include pulmonary  
 CC diseases such as restenosis, atherosclerosis, Alzheimer's disease,  
 CC Parkinson's disease, epilepsy, dementia, huntington's disease or  
 CC amyotrophic lateral sclerosis. Furthermore, the siNA may be utilised for  
 CC gene therapy applications. The current sequence is that of the siNA DNA-  
 CC RNA hybrid of the invention.  
 XX  
 XX Sequence 21 BP; 3 A; 5 C; 5 G; 2 T; 6 U; 0 Other;  
 SQ  
 Query Match 61.0%; Score 12.8; DB 10; Length 21;  
 Best Local Similarity 56.2%; Pred. No. 1.2e+04;  
 Matches 9; Conservative 5; Mismatches 2; Indels 0; Gaps 0;  
 QY 6 GTATCTGAAGAGTCTG 21  
 ||:|||||:|:  
 Db 4 GUCUCUGAGACUCUG 19  
 ||:|||||:|:  
 RESULT 14  
 ADG29693/c  
 ID ADG29693 standard; RNA; 21 BP.  
 XX  
 AC ADG29693;  
 XX  
 DT 26-FEB-2004 (first entry)  
 XX  
 DE BCL2-targeted siNA DNA-RNA hybrid - SEQ ID 259.  
 XX  
 XX double-stranded short interfering nucleic acid; siNA;  
 KW antiarteriosclerotic; neuroprotective; nootropic; antiparkinsonian;  
 KW anticonvulsant; pulmonary disease; restenosis; atherosclerosis;  
 KW Alzheimer's; Parkinson's; epilepsy; dementia; huntington's;  
 KW amyotrophic lateral sclerosis; gene therapy; ss; DNA-RNA hybrid; BCL2.  
 XX  
 OS Unidentified.  
 OS Synthetic.  
 XX  
 PN WO2003074654-A2.  
 XX





XX New compounds, particularly antisense oligonucleotides targeted to a  
PT nucleic acid encoding HMG-CoA reductase, useful for treating  
PT atherosclerosis, or a disease involving cholesterol metabolism or  
PT angiogenesis.  
XX  
PS Example 16; SEQ ID NO 261; 110pp; English.  
XX  
CC The invention relates to novel compounds of 8-80 nucleobases in length  
CC targeted to, and which specifically hybridises with, a nucleic acid  
CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)  
CC reductase, and inhibits the expression of HMG-CoA reductase. The novel  
CC compounds have cardiant, antiarteriosclerotic, and antilipaeimic  
CC activities. The compound can be used to treat disorders by antisense gene  
CC therapy. The compounds, compositions and methods are useful for treating  
CC a disease or condition associated with HMG-CoA reductase, such as a  
CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition  
CC involving cholesterol metabolism. They are also useful in research and  
CC diagnostics for modulating the expression of HMG-CoA reductase. This  
CC polynucleotide sequence represents an antisense oligonucleotide of the  
CC invention.  
XX  
SQ Sequence 20 BP; 5 A; 7 C; 3 G; 5 T; 0 U; 0 Other;  
Query Match 59.0%; Score 12.4; DB 12; Length 20;  
Best Local Similarity 92.9%; Pred. No. 1.8e+04;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 8 ATCTGAGAGTCTG 21  
Db 18 ATCTGAGAGTCTG 5  
RESULT 19  
AAV97669/C  
ID AAV97669 standard; RNA; 17 BP.  
XX  
AC AAV97669;  
XX  
XX 17-MAR-1999 (first entry)  
XX  
DE Human EGF-R target sequence nucleotide position 3859.  
XX  
XX Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;  
KW hammethead ribozyme; hairpin ribozyme; inhibition; cell proliferation;  
KW cancer; Genetic drift; detection; mutation; ss.  
XX  
OS Homo sapiens.  
XX  
XX WO9833893-A2.  
XX  
PD 06-AUG-1998.  
XX  
PF 14-JAN-1998; 98WO-US000730.  
XX  
PR 31-JAN-1997; 97US-0036476P.  
PR 04-DEC-1997; 97US-0098516Z.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX (UYAS-) UNIV ASTON.  
XX  
PI Akhtar S, Fell P, Mcswiggen JA;  
XX  
XX WPI; 1998-437449/37.  
XX  
XX Enzymatic nucleic acids - which cleave RNA derived from an epidermal  
PT growth factor receptor, useful for inhibiting cell proliferation and for  
PT treating cancers.  
XX  
PS Claim 5; Page 77; 109pp; English.  
XX  
XX The present invention describes enzymatic nucleic acid molecules (NAMs)  
CC which specifically cleave RNA derived from an epidermal growth factor

CC receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090  
CC represent specifically claimed target sequence from human EGF-R. AAV98044  
CC to AAV98966 and AAV98967 to V9878 represent hammerhead ribozymes and  
CC hairpin ribozymes respectively for human EGF-R. The NAMs are useful for  
CC cleaving EGF-R RNA in the treatment of a condition associated with EGFR  
CC expression levels e.g. to inhibit cell proliferation in the prevention or  
CC treatment of cancers. The NAMs can also be used as diagnostic tools to  
CC examine genetic drift and mutations within diseased cells or to detect  
CC the presence of EGF-R RNA in a cell  
XX  
SQ Sequence 17 BP; 4 A; 6 C; 2 G; 0 T; 5 U; 0 Other;  
Query Match 58.1%; Score 12.2; DB 2; Length 17;  
Best Local Similarity 82.4%; Pred. No. 2.3e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 4 GCGTATCTGGAAGTCT 20  
Db 17 GCGTATCTGGAAGTCT 1  
RESULT 20  
ADB02331/c  
ID ADB02331 standard; DNA; 17 BP.  
XX  
AC ADB02331;  
XX  
XX 20-NOV-2003 (first entry)  
XX  
DE Human MD24 scanning oligonucleotide SEQ ID 3317.  
XX  
XX Cytostatic; immunostimulant; Gene therapy; vaccine; human;  
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
XX EPI281758-A2.  
XX  
XX 05-FEB-2003.  
XX  
XX 30-JUL-2002; 2002EP-00016874.  
XX  
XX 02-AUG-2001; 2001US-00922181.  
XX  
XX (AEOM-) AEOMICA INC.  
XX  
XX Shannon M, Gu Y, Nguyen C;  
XX  
XX WPI; 2003-423107/40.  
XX  
XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
PS Example 8; SEQ ID NO 3317; 103pp; English.  
XX  
XX The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as

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CC vaccines. The present sequence was used to illustrate the invention.
XX
SQ Sequence 17 BP; 5 A; 6 C; 2 G; 4 T; 0 U; 0 Other;

Query Match      58.1%; Score 12.2; DB 8; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.3e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 CTGGCGTATCTGAAGAG 17
Db      17 CTGGAGCTTTGAAGAG 1

RESULT 21
AAV29903
ID AAV29903 standard; DNA; 20 BP.
XX
AC AAV29903;
XX
DT 27-AUG-2003 (revised)
DT 06-AUG-1998 (first entry)
XX
DE 3' PCR primer used to amplify the KSHV ORF 73.
XX
KW KSHV; body cavity-based lymphoma cell line; Epstein-Barr virus;
KW characterisation; diagnosis; detection; antibody treatment; PCR primer;
KW ss.
XX
OS Synthetic.
OS Human herpesvirus 8.
XX
PN WO9812341-A1.
XX
PD 26-MAR-1998.
XX
PF 15-SEP-1997; 97MO-US016282.
XX
PR 20-SEP-1996; 96US-00717291.
XX
PA (CORR ) CORNELL RES FOUND INC.
XX
PI Cesarman E, Arvanitakis L, Knowles DM, Mesri E;
XX WPI; 1998-230320/20.
XX
Kaposi's sarcoma-associated herpes virus positive cell lines - comprising
Kaposi's sarcoma-associated herpes virus, used to study virus and to
develop diagnostic and therapeutic products.
XX
PS Example 2; Page 18; 46pp; English.
XX
CC PCR primers AAV29902-03 were used to amplify open reading frame (ORF) 73
of Kaposi's sarcoma-associated herpes virus (KSHV). The specification
describes a cell line comprising KSHV, the cell line preferably being a
body cavity-based lymphoma cell line that does not harbour the Epstein-
Barr virus. The KSHV cell lines can be used for the characterisation of
the properties and functions of the infectious agent KSHV. The purified
virus can be used for diagnostic purposes, e.g. for the detection of
antibodies. The purified virus can also be used for the production of
antibodies which can be used for diagnostic and/or treatment purposes.
CC (Updated on 27-AUG-2003 to correct OS field.)
XX
SQ Sequence 20 BP; 5 A; 3 C; 8 G; 4 T; 0 U; 0 Other;

Query Match      58.1%; Score 12.2; DB 2; Length 20;
Best Local Similarity 82.4%; Pred. No. 2.3e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      5 CGTATCTGAAGAGTCTG 21
Db      1 CGGAGCTTAAGAGTCTG 17

PCR primers AAV29902-03 were used to amplify open reading frame (ORF) 73
of Kaposi's sarcoma-associated herpes virus (KSHV). The specification
describes a cell line comprising KSHV, the cell line preferably being a
body cavity-based lymphoma cell line that does not harbour the Epstein-
Barr virus. The KSHV cell lines can be used for the characterisation of
the properties and functions of the infectious agent KSHV. The purified
virus can be used for diagnostic purposes, e.g. for the detection of
antibodies. The purified virus can also be used for the production of
antibodies which can be used for diagnostic and/or treatment purposes.
CC (Updated on 27-AUG-2003 to correct OS field.)
XX
SQ Sequence 20 BP; 5 A; 3 C; 8 G; 4 T; 0 U; 0 Other;

Query Match      58.1%; Score 12.2; DB 2; Length 20;
Best Local Similarity 82.4%; Pred. No. 2.3e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      5 CGTATCTGAAGAGTCTG 21
Db      1 CGGAGCTTAAGAGTCTG 17

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RESULT 22
AAV31711
ID AAV31711 standard; DNA; 20 BP.
XX
AC AAV31711;
XX
DT 27-AUG-2003 (revised)
DT 11-SEP-1998 (first entry)
XX
DE Kaposi's sarcoma associated herpesvirus ORF73 PCR primer.
XX
KW PCR primer; KSHV; ORF73; Kaposi's sarcoma; ss.
XX
OS Synthetic.
OS Human herpesvirus 8.
XX
PN WO9815289-A1.
XX
PD 16-APR-1998.
XX
PF 09-OCT-1997; 97MO-US018216.
XX
PR 10-OCT-1996; 96US-00728603.
XX
PA (CORR ) CORNELL RES FOUND INC.
XX
PI Cesarman E, Knowles DM;
XX WPI; 1998-261008/23.
XX
Isolated Kaposi's sarcoma-associated herpesvirus proteins - comprising
antigenic membrane protein, G protein coupled receptor and cyclin protein
used to develop products for diagnosis and therapy.
XX
PS Example 1; Page 26; 68pp; English.
XX
The sequence is that of a 3' PCR primer P16 which was used to detect
transcripts of ORF73 of Kaposi's sarcoma herpesvirus (KSHV). (Updated on
27-AUG-2003 to correct OS field.)
XX
SQ Sequence 20 BP; 5 A; 3 C; 8 G; 4 T; 0 U; 0 Other;

Query Match      58.1%; Score 12.2; DB 2; Length 20;
Best Local Similarity 82.4%; Pred. No. 2.3e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      5 CGTATCTGAAGAGTCTG 21
Db      1 CGGAGCTTAAGAGTCTG 17

RESULT 23
AAD61207/c
ID AAD61207 standard; DNA; 20 BP.
XX
AC AAD61207;
XX
DT 15-JAN-2004 (first entry)
XX
DE Human Ship-1 antisense oligonucleotide ISIS #168288.
XX
Human; Ship-1; SH2-containing phosphatidylinositol phosphatase-1; INPP5D;
insensitivity to apoptotic signal; developmental disorder; inflammation;
immunosuppressive; autoimmune disorder; antisense therapy; antisense;
phosphorothioate backbone; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER

```

```
FT /note= "Phosphorothioate backbone; All cytidines are 5-
FT methyl cytidines"
FT 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyl (2'-MOE) nucleotides"
FT 16..20
FT modified_base
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyl (2'-MOE) nucleotides"
FT US2003114401-A1.
FT 19-JUN-2003.
FT 06-DEC-2001; 2001US-00003919.
FT 06-DEC-2001; 2001US-00003919.
FT (ISIS-) ISIS PHARM INC.
FT Bennett CF, Freier SM;
FT WPI; 2003-801302/75.
FT Antisense compounds targeted to nucleic acid molecule encoding Ship-1,
FT useful for treating diseases associated with expression of Ship-1, such
FT as autoimmune and developmental disorders.
FT Claim 3; Page 25; Opp; English.
FT The present invention provides antisense compounds targeted to nucleic
FT acid molecule encoding Ship-1 (also known as SH2-containing
FT phosphatidylinositol phosphatase-1 and INPP5D) to modulate/inhibit the
FT expression of Ship-1. The invention is useful in treatment of diseases
FT such as insensitivity to apoptotic signals, autoimmune disorders,
FT developmental disorders and inflammatory disorders. The present sequence
FT is human Ship-1 antisense oligonucleotide
FT SQ Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;
      Query Match      58.1%; Score 12.2; DB 10; Length 20;
      Best Local Similarity 82.4%; Pred. No. 2.3e+04;
      Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1 CTGGCGTATCTGAAGAG 17
Db 20 CTGGAGTCTCTGCAGAG 4
RESULT 24
ADH50671/c
ID ADH50671 standard; DNA; 20 BP.
XX AC ADH50671;
XX 25-MAR-2004 (first entry)
XX DE Human IRAK-1 DNA, antisense oligonucleotide #65.
XX KW Antisense therapy; human; interleukin-1 receptor-associated kinase-1;
XX IL-1 receptor-associated kinase-1; IRAK-1;
XX hyperproliferative disorder e.g.; cancer; autoimmune disorder;
XX altered bone metabolism or inflammation; cytostatic; immunosuppressive;
XX osteopathic; antiinflammatory; phosphorothioate; ss.
XX OS Homo sapiens.
XX Key Location/Qualifiers
FH modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "This oligonucleotide has a phosphorothioate
backbone and 2'-methoxyethyl (2'-MOE) wings at the 5'
and 3' ends, which are 5 nucleotides in length at each
end. All cytidine residues are 5-methylcytidines"
US2003228690-A1.
11-DEC-2003.
10-JUN-2002; 2002US-00167034.
10-JUN-2002; 2002US-00167034.
(ISIS-) ISIS PHARM INC.
Baker BF, Freier SM, Dobie KW;
WPI; 2004-052028/05.
New compound having a sequence targeted to a nucleic acid encoding IL-1
receptor-associated kinase-1, useful for preparing a composition for
treating hyperproliferative or autoimmune disorder or inflammation.
Example 15; SEQ ID NO 78; 66pp; English.
The present invention relates to antisense compounds targeted to a
nucleic acid encoding interleukin-1 (IL-1) receptor-associated kinase-1
(IRAK-1). The antisense compound comprises an antisense oligonucleotide
that specifically hybridises with the nucleic acid and inhibits the
expression of IRAK-1. The antisense oligonucleotide is a chimeric
oligonucleotide. The antisense oligonucleotide comprises at least one
modified internucleoside linkage, preferably a phosphorothioate linkage.
It also comprises at least one modified sugar moiety, preferably a 2'-O-
methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
comprises at least one modified nucleobase, preferably a 5-
methylcytosine. The antisense oligonucleotides are useful for the
treatment of diseases such as hyperproliferative disorders, e.g. cancer,
autoimmune disorders, altered bone metabolism, and inflammation. The
present sequence represents an antisense oligonucleotide used in the
examples of the present invention.
Sequence 20 BP; 4 A; 9 C; 4 G; 3 T; 0 U; 0 Other;
Query Match      58.1%; Score 12.2; DB 12; Length 20;
Best Local Similarity 82.4%; Pred. No. 2.3e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 4 GCGTATCTGAAGAGTCT 20
Db 17 GCGTAGCTGGAGGTCT 1
RESULT 25
ADI50969/c
ID ADI50969 standard; DNA; 17 BP.
XX AC ADI50969;
XX 15-APR-2004 (first entry)
XX DE Human tumour suppression/reversion-related DNA sequence SeqID3472.
XX KW tumour suppression; tumour reversion; apoptosis; virus resistance;
XX cytostatic; virucide; neuroprotective; nootropic; neuroleptic; probe;
XX primer; PCR; gene chip; antisense; viral disease; tumour;
XX cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.
XX OS Homo sapiens.
XX WO2003025177-A2.
XX 27-MAR-2003.
XX 17-SEP-2002; 2002WO-IB004523.
```

XX 17-SEP-2001; 2001FR-00011980.  
 XX (MOLE-) MOLECULAR ENGINES LAB.  
 XX Telerman A, Amson R, Tuijnder M;  
 XX WPI; 2003-313354/30.  
 XX New isolated nucleic acid, useful for treating viral diseases associated  
 XX with tumors and cell degeneration, also related polypeptides, antibodies  
 XX and transfected cells.  
 XX Disclosure; SEQ ID NO 3472; 30pp; French.  
 XX This invention relates to novel isolated nucleic acid sequences involved  
 XX in the phenomena of tumour suppression, tumour reversion, apoptosis  
 XX and/or resistance to viruses. The invention may be useful for the  
 XX development of compounds with a cytostatic, virucide, neuroprotective,  
 XX neurotropic or neuroleptic activity. The DNA sequences may be useful as  
 XX probes and primers for detecting, identifying, quantifying and/or  
 XX amplifying nucleic acid, for example as one component of a gene chip, in  
 XX vitro as antisense reagents and for production of recombinant  
 XX polypeptides. The invention may therefore be useful for preparation of  
 XX pharmaceuticals for prevention and/or treatment of viral diseases that  
 XX are characterised by development of tumours or cell degeneration,  
 XX specifically cancer but also Alzheimer's disease and schizophrenia. The  
 XX present sequence is that of a nucleic acid sequence of the invention.  
 XX Note: The sequence data for this patent did not form part of the printed  
 XX specification, but was obtained in electronic format directly from WIPO  
 XX at ftp.wipo.int/pub/publishedpct\_sequences  
 XX Sequence 17 BP; 6 A; 4 C; 2 G; 5 T; 0 U; 0 Other;  
 SQ Query Match 57.1%; Score 12; DB 10; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 2.9e+04;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 7 TATCTGAAGAGT 18  
 DB 17 TATCTGAAGAGT 6  
 RESULT 26  
 AAC92623/c  
 ID AAC92623 standard; DNA; 20 BP.  
 XX AAC92623;  
 XX 27-MAR-2001 (first entry)  
 XX Human nucleolin phosphorothioate antisense oligonucleotide, SEQ ID NO:73.  
 XX Human nucleolin; p92; C23; phosphoprotein; ribosome biogenesis;  
 XX ribosome transport; cytokinesis; nucleogenesis; cell proliferation;  
 XX cell growth; transcriptional repression; replication;  
 XX signal transduction; chromatin decondensation; Ag-NOR family;  
 XX nucleolin antibody; systemic connective tissue disease; SLE;  
 XX systemic lupus erythematosus;  
 XX scleroderma-like chronic graft versus host disease;  
 XX expression inhibition; tumour formation; cancer; inflammation;  
 XX immune disorder; phosphorothioate; antisense oligonucleotide; ss.  
 XX Homo sapiens.  
 XX US6165786-A.  
 XX 26-DEC-2000.  
 XX 03-NOV-1999; 99US-00433699.  
 XX 03-NOV-1999; 99US-00433699.  
 XX

(ISIS-) ISIS PHARM INC.  
 Bennett CF, Cowsett LM;  
 WPI; 2001-079848/09.  
 Novel antisense compound targeted to human nucleolin which specifically  
 hybridizes with and inhibits the expression of human nucleolin, useful  
 for modulating the expression of nucleolin in cells.  
 Claim 14; Col 43-44; 41pp; English.  
 Sequences AAC92560-C92639 represent antisense oligonucleotides targetted  
 to the human nucleolin gene, which inhibit its expression. The antisense  
 oligonucleotides were designed to target different regions of the human  
 nucleolin mRNA, and were analysed for their effect on nucleolin mRNA  
 levels by quantitative real-time PCR. Nucleolin (also known as p92 or  
 C23) is the most abundant nucleolar phosphoprotein in actively growing  
 cells. Nucleolin primarily participates in ribosome biogenesis and  
 transport of ribosomal components, being able to transiently bind to pre-  
 ribosomes in the nucleolus via a ribonucleoprotein consensus sequence.  
 However, it has also been shown to be involved in cytokinesis,  
 nucleogenesis, cell proliferation and growth, transcriptional repression,  
 replication, signal transduction, and chromatin decondensation. Nucleolin  
 is a member of the Ag-NOR (active ribosomal gene located in the nucleolar  
 organiser region) family of proteins which are markers of active  
 ribosomal genes, and whose expression is associated with the prediction  
 of tumour growth rate. The presence of antibodies against nucleolin are  
 associated with systemic connective tissue diseases such as systemic  
 lupus erythematosus (SLE) and scleroderma-like chronic graft versus host  
 disease. The oligonucleotides of the invention are useful for diagnosis,  
 prevention and treatment of conditions associated with nucleolin  
 expression, such as tumour formation, immune disorders and inflammation  
 XX Sequence 20 BP; 5 A; 6 C; 2 G; 7 T; 0 U; 0 Other;  
 Query Match 57.1%; Score 12; DB 4; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 2.9e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
 QY 2 TGGCGTATCTGAAGAGTCTG 21  
 DB 20 TGGCAAAATCTAAAGGATG 1  
 RESULT 27  
 ADP68593/c  
 ID ADP68593 standard; DNA; 20 BP.  
 XX ADP68593;  
 XX 09-SEP-2004 (first entry)  
 XX Human PPAR-alpha antisense oligonucleotide seqid 29.  
 XX Cytostatic; gene therapy; PPAR-alpha;  
 XX peroxisome proliferator-activated receptor-alpha; PPAR-alpha modulator;  
 XX PPAR-alpha associated disorder; hyperproliferative disorder; human;  
 XX antisense oligonucleotide; antisense technology; ss.  
 XX Homo sapiens.  
 XX US2004115637-A1.  
 XX 17-JUN-2004.  
 XX 11-DEC-2002; 2002US-00317500.  
 XX 11-DEC-2002; 2002US-00317500.  
 XX (ISIS-) ISIS PHARM INC.  
 XX McKay R, Dobie KW;  
 XX

XX WPI; 2004-449378/42.  
 XX  
 XX New oligonucleotide compound that inhibits expression of PPAR-alpha,  
 PT useful for preparing a composition for treating hyperproliferative  
 PT disorders, e.g. cancer.  
 XX  
 XX Example 15; SEQ ID NO 29; 121pp; English.  
 XX  
 XX The invention describes a compound, having a sequence comprising 8-80 bp  
 CC targeted to a nucleic acid encoding PPAR-alpha (peroxisome proliferator-  
 CC activated receptor-alpha), that specifically hybridises with the nucleic  
 CC acid encoding PPAR-alpha comprising 86001-bp sequence and inhibits  
 CC expression of PPAR-alpha in cells or tissues; a method of screening for a  
 CC modulator of PPAR-alpha; a diagnostic method for identifying a disease  
 CC state; a kit or assay device comprising the compound; and a method of  
 CC treating an animal having a disease or condition associated with PPAR-  
 CC alpha. The oligonucleotide compound is useful for preparing a composition  
 CC for treating hyperproliferative disorder e.g. cancer. This sequence  
 CC represents a human peroxisome proliferator-activated receptor-alpha (PPAR  
 CC -alpha) antisense oligonucleotide.  
 XX  
 XX Sequence 20 BP; 6 A; 4 C; 4 G; 6 T; 0 U; 0 Other;  
 SQ

Query Match 57.1%; Score 12; DB 12; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 2.9e+04;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGT 18  
 |||||  
 Db 20 TATCTGAAGAGT 9

RESULT 28  
 ADP68748  
 ID ADP68748 standard; DNA; 20 BP.  
 XX  
 XX ADP68748;  
 AC  
 XX  
 XX 09-SEP-2004 (first entry)  
 DT  
 XX  
 XX Human PPAR-alpha antisense oligonucleotide seqid 184.  
 DE  
 XX  
 XX cytostatic; gene therapy; PPAR-alpha;  
 KW peroxisome proliferator-activated receptor-alpha; PPAR-alpha modulator;  
 KW PPAR-alpha associated disorder; hyperproliferative disorder; human;  
 KW antisense oligonucleotide; antisense technology; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2004115637-A1.  
 PN  
 XX  
 XX 17-JUN-2004.  
 PD  
 XX  
 XX 11-DEC-2002; 2002US-00317500.  
 PF  
 XX  
 XX 11-DEC-2002; 2002US-00317500.  
 PR  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA  
 XX  
 XX McKay R, Dobie KW;  
 PI  
 XX  
 XX WPI; 2004-449378/42.  
 DR  
 XX  
 XX New oligonucleotide compound that inhibits expression of PPAR-alpha,  
 PT useful for preparing a composition for treating hyperproliferative  
 PT disorders, e.g. cancer.  
 XX  
 XX Example 16; SEQ ID NO 184; 121pp; English.  
 PS  
 XX The invention describes a compound, having a sequence comprising 8-80 bp  
 CC targeted to a nucleic acid encoding PPAR-alpha (peroxisome proliferator-  
 CC activated receptor-alpha), that specifically hybridises with the nucleic  
 CC acid encoding PPAR-alpha comprising 86001-bp sequence and inhibits  
 CC expression of PPAR-alpha in cells or tissues; a method of screening for a  
 CC modulator of PPAR-alpha; a diagnostic method for identifying a disease  
 CC state; a kit or assay device comprising the compound; and a method of  
 CC treating an animal having a disease or condition associated with PPAR-  
 CC alpha. The oligonucleotide compound is useful for preparing a composition  
 CC for treating hyperproliferative disorder e.g. cancer. This sequence  
 CC represents a human peroxisome proliferator-activated receptor-alpha (PPAR  
 CC -alpha) antisense oligonucleotide.  
 XX  
 XX Sequence 20 BP; 6 A; 4 C; 4 G; 6 T; 0 U; 0 Other;  
 SQ

Query Match 57.1%; Score 12; DB 12; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 2.9e+04;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGT 18  
 |||||  
 Db 1 TATCTGAAGAGT 12

RESULT 29  
 AAA46172/c  
 ID AAA46172 standard; DNA; 21 BP.  
 XX  
 XX AAA46172;  
 AC  
 XX  
 XX 06-AUG-2003 (revised)  
 DT  
 XX  
 XX 27-SEP-2000 (first entry)  
 DT  
 XX  
 XX PCR primer for GST.  
 DE  
 XX  
 XX GST-GFP fusion construct; circular; green fluorescent protein;  
 KW glutathione S-transferase; eukaryotic diploid multicellular parasite;  
 KW universal graft; transgenic eukaryotic parasite; acquired deficiency;  
 KW genetic deficiency; hormone deficiency; metabolic deficiency;  
 KW haematological deficiency; immunological deficiency; immunotherapy;  
 KW anti-microbial therapy; anti-cancer therapy; drug addiction;  
 KW poisoning condition; geriatric condition; PCR primer; ss.  
 XX  
 OS Schistosoma sp.  
 XX  
 XX WO200032804-A1.  
 PN  
 XX  
 XX 08-JUN-2000.  
 PD  
 XX  
 XX 01-DEC-1999; 99WO-IL000651.  
 PF  
 XX  
 XX 01-DEC-1998; 98US-00201850.  
 PR  
 XX  
 XX (YISS ) YISSUM RES & DEV CO.  
 PA  
 XX  
 XX Hamburger J, Laban A;  
 PI  
 XX  
 XX WPI; 2000-412348/35.  
 DR  
 XX  
 XX Eukaryotic diploid multicellular parasite useful as universal grafts for  
 PT in vivo delivery of beneficial gene products in humans and animals  
 PT involves transformation with a transgene.  
 PT  
 XX  
 XX Example 2; Page 36; 90pp; English.  
 PS  
 XX  
 XX This sequence represents a PCR primer use to isolate DNA encoding the  
 CC Shistosoma glutathion s-transferase protein. The amplified sequence can  
 CC be used in a construct to transform the parasite of the invention. The  
 CC parasite is a eukaryotic diploid multicellular parasite transformed with  
 CC a transgene. Transgenic eukaryotic parasites are useful as universal  
 CC grafts for in vivo delivery of beneficial gene product in humans and  
 CC animals. The parasites can particularly be used for restoration of  
 CC deficiencies whether acquired or genetic, such as hormone deficiencies,  
 CC metabolic deficiencies, haematological deficiencies, immunological



CC deficiencies, immunotherapy, anti-microbial therapy, anti-cancer therapy.  
 CC They can also be used for treatment of drug addiction, of poisoning of  
 CC conditions, and for amelioration of geriatric conditions. Treatment of  
 CC humans with in vivo transgenes are universally compatible, readily  
 CC available and inexpensive. Genotypic alterations of the patients is  
 CC avoided, reducing risks of mutagenesis and malignant transformation.  
 CC (Updated on 06-AUG-2003 to correct OS field.)  
 CC  
 CC

SQ Sequence 21 BP; 4 A; 10 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 57.1%; Score 12; DB 3; Length 21;  
 Best Local Similarity 75.0%; Pred. No. 3e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 TGGCGTATCTCAAGAGTCTG 21  
 |||||  
 Db 21 TGGAGCATGTGAGGAGGCTG 2

## RESULT 30

AAF97151/C  
 ID AAF97151 standard; DNA; 21 BP.

XX AC AAF97151;

XX DT 18-NOV-2004 (revised)  
 DT 06-JUN-2001 (first entry)

XX Human gene single nucleotide polymorphism #1912.

DE Human; variant thrombospondin 1; variant thrombospondin 4; SNP;  
 KW polymorphism; vascular disease; coronary artery disease; forensics;  
 KW myocardial infarction; atherosclerosis; stroke; venous thromboembolism;  
 KW pulmonary embolism; paternity test; ds.

OS Homo sapiens.

OS Unidentified.

XX Key Location/Qualifiers  
 FT variation  
 FT 11  
 FT /\*tag= a  
 FT /standard\_names "Single nucleotide polymorphism"

XX WO200118250-A2.

XX PD 15-MAR-2001.

XX PF 07-SEP-2000; 2000WO-US024503.

XX PR 10-SEP-1999; 98US-0153357P.

XX PR 26-JUL-2000; 2000US-0220947P.

XX PR 16-AUG-2000; 2000US-0225724P.

XX PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.

XX PA (MILL-) MILLENNIUM PHARM INC.

XX PI Lander ES, Gargill M, Ireland JS, Bolk S, Daley GO, McCarthy JJ;

XX WPI; 2001-226749/23.

XX Nucleic acids comprising single nucleotide polymorphisms, useful in  
 PT applications such as forensics, paternity testing, medicine, genetic  
 PT analysis and phenotype correlations to diseases such as diabetes and  
 PT atherosclerosis.

XX Example; Page 178; 242pp; English.

CC The present invention provides a method of diagnosing a vascular disease  
 CC in an individual, involving determining the sequence at various  
 CC polymorphic sites within the human thrombospondin 1 and thrombospondin 4  
 CC genes. The sequences at a number of polymorphic sites are also provided  
 CC in the specification. In particular, the method can be used in the  
 CC diagnosis of atherosclerosis, myocardial infarction, coronary heart

CC disease, stroke, peripheral vascular diseases, venous thromboembolism and  
 CC pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also  
 CC useful in forensics, paternity testing, genetic analysis and phenotype  
 CC correlations to diseases. The present sequence is an example of one of  
 CC the human gene SNPs shown in the specification

CC Revised record issued on 18-NOV-2004 : The variation feature was  
 CC incorrectly given a capital V

SQ Sequence 21 BP; 5 A; 5 C; 6 G; 5 T; 0 U; 0 Other;

Query Match 57.1%; Score 12; DB 4; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 3e+04;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 CTGAAGAGTCTG 21  
 |||||  
 Db 16 CTGAAGAGTCTG 5

## RESULT 31

AAQ51964  
 ID AAQ51964 standard; RNA; 17 BP.

XX AC AAQ51964;

XX DT 25-MAR-2003 (revised)  
 DT 26-MAY-1994 (first entry)

XX BCL-2 mRNA ribozyme cleavable nucleotide (2100).

XX Multiple drug resistance; mdr-1; ribozyme; membrane protein; liver;  
 KW resistance; chemotherapeutic agent; colchicine; doxorubicin; colon;  
 KW actinomycin D; vinblastine; small intestine; kidney; adrenal gland;  
 KW adenocarcinoma; bowel; transformed phenotype; promyelocytic leukemia;  
 KW human; chronic myelogenous leukemia; CML; follicular lymphoma;  
 KW B-cell acute lymphocytic leukemia; breast cancer; colon carcinoma;  
 KW neuroblastoma; lung cancer; genetic drift; mutation; hammerhead motif;  
 KW hairpin; hepatitis delta virus; group I intron; RNaseP; ss.

XX Homo sapiens.

XX WO9323057-A1.

XX PD 25-NOV-1993.

XX PF 13-MAY-1993; 93WO-US004573.

XX PR 14-MAY-1992; 92US-00882822.

XX PR 14-MAY-1992; 92US-00882885.

XX PR 26-AUG-1992; 92US-00936110.

XX PR 26-AUG-1992; 92US-00936421.

XX PR 26-AUG-1992; 92US-00936422.

XX PR 26-AUG-1992; 92US-00936531.

XX PR 26-AUG-1992; 92US-00936532.

XX PR 07-DEC-1992; 92US-00987131.

XX PR 19-JAN-1993; 93US-00006122.

XX PR 19-JAN-1993; 93US-00008910.

XX (RIBO-) RIBOZYME PHARM INC.

XX Thompson JD, Draper KG;

XX WPI; 1993-386203/48.

XX New enzymatic RNA molecules (ribozymes) - which cleave mRNA associated  
 PT with tumours or mRNA expressed from gene encoding multiple drug  
 PT resistance.

XX Claim 3; Fig 6; 69pp; English.

XX The sequences given in AAQ51825-2266 represent areas of mRNAs which are  
 CC associated with development or maintenance of chronic myelogenous

CC leukemia (CML), promyelocytic leukemia, Burkitt's lymphoma, or acute  
 CC lymphocytic leukemia, follicular lymphoma, B-cell acute lymphocytic  
 CC leukemia, breast cancer, colon carcinoma, neuroblastoma and lung cancer.  
 CC The full length mRNAs containing these target sequences, encode aberrant  
 CC cellular proteins which are able to control cellular proliferation and  
 CC are directly linked to a leukemic phenotype. These target sequences are  
 CC identified by the ribozyme of the invention. The ribozymes is formed in a  
 CC hammerhead motif, but may also be formed in the motif of a hairpin,  
 CC hepatitis delta virus, group I intron or RNaseP-like RNA. These ribozymes  
 CC may be used to inhibit the development or expression of a transformed  
 CC phenotype in man and other animals by modulating expression of the  
 CC corresponding gene. Cleavage of target mRNAs expressed in pre-neoplastic  
 CC and transformed cells elicits inhibition of the transformed state.  
 CC Multiple drug resistance (mdr-1) mRNA specific ribozymes remove the  
 CC mechanism of drug resistance used by transformed cells and thus enhances  
 CC drug therapies for tumours. The ribozymes may also be used to study  
 CC genetic drift and mutations within cells. (Updated on 25-MAR-2003 to  
 CC correct PN field.)  
 XX  
 SQ Sequence 17 BP; 3 A; 5 C; 3 G; 0 T; 6 U; 0 Other;

Query Match 56.2%; Score 11.8; DB 2; Length 17;  
 Best Local Similarity 53.3%; Pred. No. 3.6e+04;  
 Matches 8; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCT 20  
 |: :|:|:|:|:|:|:  
 Db 3 GUCUCUGAAGACUCU 17

RESULT 32  
 AAV97667/c  
 ID AAV97667 standard; RNA; 17 BP.  
 AC AAV97667;  
 XX  
 DT 17-MAR-1999 (first entry)  
 XX  
 DE Human EGF-R target sequence nucleotide position 3856.  
 KW Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;  
 KW hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;  
 KW cancer; genetic drift; detection; mutation; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9833893-A2.  
 XX  
 PD 06-AUG-1998.  
 XX  
 PF 14-JAN-1998; 98WO-US000730.  
 XX  
 PR 31-JAN-1997; 97US-0036476P.  
 PR 04-DEC-1997; 97US-00985162.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (UYAS-) UNIV ASTON.  
 XX  
 PI Akhtar S, Fell P, Mcswiggen JA;  
 XX  
 DR WPI; 1998-437449/37.  
 XX  
 XX Enzymatic nucleic acids - which cleave RNA derived from an epidermal  
 PT growth factor receptor, useful for inhibiting cell proliferation and for  
 PT treating cancers.  
 XX  
 XX Claim 5; Page 77; 109pp; English.

XX The present invention describes enzymatic nucleic acid molecules (NAMs)  
 CC which specifically cleave RNA derived from an epidermal growth factor  
 CC receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090  
 CC represent specifically claimed target sequence from human EGF-R. AAV98044  
 CC to AAV98866 and AAV98867 to V9878 represent hammerhead ribozymes and

CC hairpin ribozymes respectively for human EGF-R. The NAMs are useful for  
 CC cleaving EGF-R RNA in the treatment of a condition associated with EGFR  
 CC expression levels e.g. to inhibit cell proliferation in the prevention or  
 CC treatment of cancers. The NAMs can also be used as diagnostic tools to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of EGF-R RNA in a cell

SQ Sequence 17 BP; 4 A; 5 C; 2 G; 0 T; 6 U; 0 Other;  
 Query Match 56.2%; Score 11.8; DB 2; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 3.6e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGTCTG 21  
 ||||| ||||| |||||  
 Db 17 TATCGAAGAGTCTG 3

RESULT 33  
 ABK03278/c  
 ID ABK03278 standard; RNA; 17 BP.  
 XX  
 AC ABK03278;  
 XX  
 DT 12-MAR-2002 (first entry)  
 XX  
 DE Human CD20 Inozyme #229.  
 XX  
 XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNAzyme; inozyme; G-cleaver; amberzyme; zinczyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytooma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO200159103-A2.  
 XX  
 PD 16-AUG-2001.  
 XX  
 PF 09-FEB-2001; 2001WO-US004273.  
 XX  
 PR 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 PI Blatt L, Mcswiggen J, Chowrira BM;  
 XX  
 DR WPI; 2001-607195/69.  
 XX  
 XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX  
 PS Claim 30; Page 149; 200pp; English.

XX The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The

CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNase) an inozyme (an endolytic nucleic acid cleaving a RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an amberyyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is an inozyme of the invention

XX SQ Sequence 17 BP; 5 A; 6 C; 2 G; 0 T; 4 U; 0 Other;

Query Match 56.2%; Score 11.8; DB 4; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 3.6e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 CGGTATCTGAAGAGT 18

Db 16 GCGTATGTCAGAGT 2

RESULT 34

ADP92273  
 ID ADF92273 standard; DNA; 17 BP.

XX AC ADF92273;

XX DT 26-FEB-2004 (first entry)

XX DE Human cytokeratin 19-derived F3 PCR primer - SEQ ID 361.

XX KW human; cytokeratin; CK; LAMP; loop mediated isothermal amplification;  
 KW tumour metastasis; prostate cancer; lymphoma; human; CK19; ss; primer;  
 KW PCR; F3.

XX OS Homo sapiens.

XX PN WO2003097878-A1.

XX PD 27-NOV-2003.

XX PF 20-MAY-2003; 2003WO-JP006256.

XX PR 21-MAY-2002; 2002JP-00145689.

XX PR 17-JUN-2002; 2002JP-00175271.

XX PR 09-JUL-2002; 2002JP-00199759.

XX PA (SYSM-) SYSMEX CORP.

XX PI Tada S, Akai Y, Imura Y, Abe S, Minekawa H;

XX DR WPI; 2004-012543/01.

XX PT LAMP nucleic acid amplification primers for detection of cytokeratin

PT expression as indicator in diagnosis of tumour metastasis.

XX PS Claim 19; SEQ ID NO 361; 266pp; Japanese.

XX CC The invention relates to novel nucleic acid amplification primers for the  
 CC detection of human cytokeratin (CK) 18, 19 or 20 expression by the LAMP  
 CC (loop mediated isothermal amplification) method. The primers of the LAMP  
 CC invention may be useful for the detecting cytokeratin 18-20 expression as  
 CC an indicator for the diagnosis of tumour metastasis, particularly  
 CC prostate cancer and lymphoma. The amplification using the primers is  
 CC highly efficient and allows very sensitive detection of tumour  
 CC metastasis. The current sequence is that of the human CK19-related PCR  
 CC primer of the invention.

XX SQ Sequence 17 BP; 4 A; 5 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 56.2%; Score 11.8; DB 12; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 3.6e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGCGGTATCTGAAG 15

Db 3 CTGCGCTACCTGAAG 17

RESULT 35

ADQ61034  
 ID ADQ61034 standard; RNA; 19 BP.

XX AC ADQ61034;

XX DT 09-SEP-2004 (first entry)

XX DE Anti-PLT1 siRNA related DNA sequence SEQ ID NO:736.

XX KW ss; siRNA; gene silencing; Bcl-2; optimised; short interfering RNA;  
 KW RNA interference.

XX OS Synthetic.

XX PN WO2004045543-A2.

XX PD 03-JUN-2004.

XX PF 14-NOV-2003; 2003WO-US036787.

XX PR 14-NOV-2002; 2002US-0426137P.

XX PR 10-SEP-2003; 2003US-0502050P.

XX PA (DHAR-) DHARMA CON INC.

XX PI Anastasia K, Angela R, Devin L, William M, Stephen S;

XX DR WPI; 2004-420527/39.

XX PT Selecting siRNA by selecting an siRNA molecule of 19-25 nucleoside bases  
 by selecting a target gene and measuring the functionality of the  
 PT nucleotide sequences that are complementary to a stretch of nucleotides  
 PT of the target sequence.

XX PS Example 12; SEQ ID NO 736; 199pp; English.

XX CC The invention relates to a novel method for selecting siRNA (short  
 CC interfering RNA) comprising selecting an siRNA molecule of 19-25  
 CC nucleoside bases by selecting a target gene and measuring the  
 CC functionality of sequences of 19-25 nucleotides in length that are  
 CC substantially complementary to a stretch of nucleotides of the target  
 CC sequence, where the functionality is dependent upon non-target specific  
 CC criteria. Also claimed are methods for gene-silencing, developing an  
 CC siRNA algorithm for selecting siRNA, selecting an siRNA with improved  
 CC functionality, selecting hyperfunctional siRNA, an siRNA molecule  
 CC effective at silencing Bcl-2, and a kit for gene silencing comprising the  
 CC siRNA. The siRNA molecule comprises a sequence substantially similar to a

sequence consisting of GGGAGUAGUGAAGUA; GAAGUACAUCUUAUUAAG;  
 CC GUAGCAACCGGAGUA; AGUACUGAGUAGUACAU; UGAAGACUCUCAGUUU;  
 CC CAUGCGCCUCUGUUUGA; UCGCGCUCUGUUUGAUUU; GAAGUAGUAGAGUACA;  
 CC GGAGUAGUGAAGUAGUAC; and GAAGACUCUCUGUAGUUUG. The siRNA molecule  
 CC comprises a sense strand and an anti-sense strand. The siRNA molecule  
 CC pairs. The siRNA molecule comprises between 18 and 30 base  
 CC siRNA and a second optimised siRNA. The method is useful in selecting  
 CC siRNA for generating a gene silencing reagent. The present sequence is  
 CC used in the exemplification of the invention. The sequence is shown in  
 CC the specification as DNA, but described as siRNA.

Sequence 19 BP; 7 A; 2 C; 7 G; 3 T; 0 U; 0 Other;  
 SQ Query Match 56.2%; Score 11.8; DB 12; Length 19;  
 Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGGTATCTGAAGAG 17  
 Db 2 GACGTAAGAG 16

RESULT 36  
 ADR79337/c  
 ID ADR79337 standard; DNA; 19 BP.  
 XX AC ADR79337;  
 XX DT 16-DEC-2004 (first entry)  
 XX DE Human apolipoprotein B (ApoB) oligonucleotide seqid 3822.  
 XX KW antilipemic; cardiatic; vasotropic; antiarteriosclerotic; antidiabetic;  
 KW cytosatic; anticonvulsant; nootropic; muscular; anti-HIV;  
 KW RNA interference; siRNA; antisense technology; lipid metabolism;  
 KW cholesterol imbalance; dyslipidaemia hypercholesterolaemia;  
 KW coronary artery disease; CAD; coronary heart disease; CHD;  
 KW atherosclerosis; hepatic glucose production;  
 KW glucose-metabolism-related disorder; diabetes; cancer; breast cancer;  
 KW colon cancer; lung cancer; neurological disease; Huntington disease;  
 KW spinocerebellar ataxia; viral disease; AIDS; apolipoprotein B; apob; ss.  
 XX OS Homo sapiens.  
 XX XX WO2004080406-A2.  
 XX PD 23-SEP-2004.  
 XX PF 08-MAR-2004; 2004WO-US007070.  
 XX PR 07-MAR-2003; 2003US-0452682P.  
 XX PR 12-MAR-2003; 2003US-0454265P.  
 XX PR 13-MAR-2003; 2003US-0454962P.  
 XX PR 13-MAR-2003; 2003US-0455050P.  
 XX PR 14-APR-2003; 2003US-0452894P.  
 XX PR 17-APR-2003; 2003US-0463772P.  
 XX PR 25-APR-2003; 2003US-0465655P.  
 XX PR 25-APR-2003; 2003US-0465802P.  
 XX PR 09-MAY-2003; 2003US-0469612P.  
 XX PR 08-AUG-2003; 2003US-0493986P.  
 XX PR 11-AUG-2003; 2003US-0494597P.  
 XX PR 26-SEP-2003; 2003US-0506341P.  
 XX PR 09-OCT-2003; 2003US-0510246P.  
 XX PR 10-OCT-2003; 2003US-0510318P.  
 XX PR 07-NOV-2003; 2003US-0518453P.  
 XX XX (ALNY-) ALNYLAM PHARM.  
 XX PA Manoharan M, Bumcrot D;  
 XX PI WPI; 2004-677362/66.  
 XX DR  
 XX XX

PT Interference RNA agent useful for treating dyslipidemias, coronary artery  
 PT disease, diabetes, cancer or neurological disease, comprises sense  
 PT sequence and antisense sequence which has specific modifications.

XX Example 5; SEQ ID NO 3822; 378pp; English.

XX The invention describes a RNA interference (siRNA) agent (I) comprising a  
 CC sense sequence and an antisense sequence, where the sense sequences have  
 CC one or more asymmetrical 2'-O alkyl modifications, the antisense  
 CC sequences have one or more asymmetrical phosphorothioate modifications  
 CC and the antisense sequence targets a human gene sequence. Also described  
 CC are: a pharmaceutical preparation comprising (I); reducing (M1) apob-100  
 CC levels or glucose-6-phosphatase levels in a subject; producing (I);  
 CC stabilising (I), involves selecting a sequence with activity and  
 CC introducing one or more asymmetrical modification in the sequence, where  
 CC the modification decreases nuclease sensitivity while not decreasing its  
 CC activity; a kit comprising (I) and instruction for its use; and a device  
 CC that can be dispense or administer a composition comprising (I). (I) is  
 CC useful for reducing apob-100 levels or glucose-6-phosphatase levels. (M1)  
 CC is useful for reducing apob-100 levels or glucose-6-phosphatase levels.  
 CC The subject is suffering from a disorder characterised by elevated or  
 CC otherwise unwanted expression of apob-100, elevated or otherwise unwanted  
 CC levels of cholesterol, and/or dysregulation of lipid metabolism. The  
 CC disorder is chosen from the HDL/LDL cholesterol imbalance,  
 CC dyslipidaemias, hypercholesterolaemia, statin-resistant  
 CC hypercholesterolaemia, coronary artery disease (CAD), coronary heart  
 CC disease (CHD) and atherosclerosis. (I) is administered to a subject to  
 CC inhibit hepatic glucose production or for treating glucose-metabolism-  
 CC related disorder e.g. diabetes or type-2 diabetes. (I) is useful for  
 CC treating the diseases as mentioned above, cancer (e.g. breast, colon or  
 CC lung cancer), neurological disease (e.g., Huntington disease or  
 CC spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence  
 CC represents a human apolipoprotein B (ApoB) antisense oligonucleotide that  
 CC can be used to control Apob gene expression.

XX Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 56.2%; Score 11.8; DB 13; Length 19;  
 Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGCTCTG 21  
 Db 17 TTCTGAAGAGCCTG 3

RESULT 37

ADR80012/c  
 ID ADR80012 standard; DNA; 19 BP.

XX AC ADR80012;

XX DT 16-DEC-2004 (first entry)

XX DE Human apolipoprotein B (ApoB) oligonucleotide seqid 4508.

XX KW antilipemic; cardiatic; vasotropic; antiarteriosclerotic; antidiabetic;  
 KW cytosatic; anticonvulsant; nootropic; muscular; anti-HIV;  
 KW RNA interference; siRNA; antisense technology; lipid metabolism;  
 KW cholesterol imbalance; dyslipidaemia hypercholesterolaemia;  
 KW coronary artery disease; CAD; coronary heart disease; CHD;  
 KW atherosclerosis; hepatic glucose production;  
 KW glucose-metabolism-related disorder; diabetes; cancer; breast cancer;  
 KW colon cancer; lung cancer; neurological disease; Huntington disease;  
 KW spinocerebellar ataxia; viral disease; AIDS; apolipoprotein B; apob; ss.

XX OS Homo sapiens.

XX XX WO2004080406-A2.

XX PD 23-SEP-2004.

XX PF 08-MAR-2004; 2004WO-US007070.

XX 07-MAR-2003; 2003US-0452682P.  
PR 12-MAR-2003; 2003US-0454265P.  
PR 13-MAR-2003; 2003US-0454962P.  
PR 13-MAR-2003; 2003US-0455050P.  
PR 14-APR-2003; 2003US-0462894P.  
PR 17-APR-2003; 2003US-0463772P.  
PR 25-APR-2003; 2003US-0465665P.  
PR 25-APR-2003; 2003US-045802P.  
PR 09-MAY-2003; 2003US-0469612P.  
PR 08-AUG-2003; 2003US-0493986P.  
PR 11-AUG-2003; 2003US-0494597P.  
PR 26-SEP-2003; 2003US-0506341P.  
PR 09-OCT-2003; 2003US-0510246P.  
PR 10-OCT-2003; 2003US-0510318P.  
PR 07-NOV-2003; 2003US-0518453P.  
XX (ALNY-) ALNYLAM PHARM.  
XX Manoharan M, Bumcrot D;  
XX WPI; 2004-677362/66.  
XX Interference RNA agent useful for treating dyslipidemias, coronary artery  
XX disease, diabetes, cancer or neurological disease, comprises sense  
XX sequence and antisense sequence which has specific modifications.  
XX Example 5; SEQ ID NO 4508; 378pp; English.  
XX The invention describes a RNA interference (iRNA) agent (I) comprising a  
XX sense sequence and an antisense sequence, where the sense sequences have  
XX one or more asymmetrical 2'-O alkyl modifications, the antisense  
XX sequences have one or more asymmetrical phosphorothioate modifications  
XX and the antisense sequence targets a human gene sequence. Also described  
XX are a pharmaceutical preparation comprising (I); reducing (M1) apoB-100  
XX levels or glucose-6-phosphatase levels in a subject; producing (I);  
XX stabilising (I), involves selecting a sequence with activity and  
XX introducing one or more asymmetrical modification in the sequence, where  
XX the modification decreases nuclease sensitivity while not decreasing its  
XX activity; a kit comprising (I) and instruction for its use; and a device  
XX that can be dispense or administer a composition comprising (I). (I) is  
XX useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (M1)  
XX is useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (M1)  
XX The subject is suffering from a disorder characterised by elevated or  
XX otherwise unwanted expression of apoB-100, elevated or otherwise unwanted  
XX levels of cholesterol, and/or dysregulation of lipid metabolism. The  
XX disorder is chosen from the HDL/LDL cholesterol imbalance,  
XX dyslipidaemias, hypercholesterolaemia, statin-resistant  
XX hypercholesterolaemia, coronary artery disease (CAD), coronary heart  
XX disease (CHD) and atherosclerosis. (I) is administered to a subject to  
XX inhibit hepatic glucose production or for treating glucose-metabolism-  
XX related disorder e.g. diabetes or type-2 diabetes. (I) is useful for  
XX treating the diseases as mentioned above, cancer (e.g. breast, colon or  
XX lung cancer), neurological disease (e.g., Huntington disease or  
XX spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence  
XX represents a human apolipoprotein B (ApoB) antisense oligonucleotide that  
XX can be used to control ApoB gene expression.  
XX Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;  
XX Query Match 56.2%; Score 11.8; DB 13; Length 19;  
XX Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
XX  
XX 7 TATCTGAGAGCTCTG 21  
XX | | | | | | | | | |  
XX 16 TTTCGAGAGCCTG 2  
XX  
XX RESULT 38  
XX ADR75873/c  
XX ID ADR75873 standard; DNA; 19 BP.  
XX

AC ADR75873;  
XX 16-DEC-2004 (first entry)  
XX Human apolipoprotein B (ApoB) oligonucleotide seqid 358.  
XX antilipemic; cardiatic; vasotropic; antiarteriosclerotic; antidiabetic;  
XX cyostatic; anticonvulsant; nootropic; muscula; anti-HIV;  
XX RNA interference; iRNA; antisense technology; lipid metabolism;  
XX cholesterol imbalance; dyslipidaemia hypercholesterolaemia;  
XX coronary artery disease; CAD; coronary heart disease; CHD;  
XX atherosclerosis; hepatic glucose production;  
XX glucose-metabolism-related disorder; diabetes; cancer; breast cancer;  
XX colon cancer; lung cancer; neurological disease; Huntington disease;  
XX spinocerebellar ataxia; viral disease; AIDS; apolipoprotein B; apoB; ss.  
XX Homo sapiens.  
XX WO2004080406-A2.  
XX 23-SEP-2004.  
XX 08-MAR-2004; 2004WO-US007070.  
XX 07-MAR-2003; 2003US-0452682P.  
XX 12-MAR-2003; 2003US-0454265P.  
XX 13-MAR-2003; 2003US-0454962P.  
XX 13-MAR-2003; 2003US-0455050P.  
XX 14-APR-2003; 2003US-0462894P.  
XX 17-APR-2003; 2003US-0463772P.  
XX 25-APR-2003; 2003US-0465665P.  
XX 09-MAY-2003; 2003US-0469612P.  
XX 08-AUG-2003; 2003US-0493986P.  
XX 11-AUG-2003; 2003US-0494597P.  
XX 26-SEP-2003; 2003US-0506341P.  
XX 09-OCT-2003; 2003US-0510246P.  
XX 10-OCT-2003; 2003US-0510318P.  
XX 07-NOV-2003; 2003US-0518453P.  
XX (ALNY-) ALNYLAM PHARM.  
XX Manoharan M, Bumcrot D;  
XX WPI; 2004-677362/66.  
XX Interference RNA agent useful for treating dyslipidemias, coronary artery  
XX disease, diabetes, cancer or neurological disease, comprises sense  
XX sequence and antisense sequence which has specific modifications.  
XX Example 5; SEQ ID NO 358; 378pp; English.  
XX The invention describes a RNA interference (iRNA) agent (I) comprising a  
XX sense sequence and an antisense sequence, where the sense sequences have  
XX one or more asymmetrical 2'-O alkyl modifications, the antisense  
XX sequences have one or more asymmetrical phosphorothioate modifications  
XX and the antisense sequence targets a human gene sequence. Also described  
XX are a pharmaceutical preparation comprising (I); reducing (M1) apoB-100  
XX levels or glucose-6-phosphatase levels in a subject; producing (I);  
XX stabilising (I), involves selecting a sequence with activity and  
XX introducing one or more asymmetrical modification in the sequence, where  
XX the modification decreases nuclease sensitivity while not decreasing its  
XX activity; a kit comprising (I) and instruction for its use; and a device  
XX that can be dispense or administer a composition comprising (I). (I) is  
XX useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (M1)  
XX is useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (M1)  
XX The subject is suffering from a disorder characterised by elevated or  
XX otherwise unwanted expression of apoB-100, elevated or otherwise unwanted  
XX levels of cholesterol, and/or dysregulation of lipid metabolism. The  
XX disorder is chosen from the HDL/LDL cholesterol imbalance,  
XX dyslipidaemias, hypercholesterolaemia, statin-resistant  
XX hypercholesterolaemia, coronary artery disease (CAD), coronary heart  
XX disease (CHD) and atherosclerosis. (I) is administered to a subject to  
XX inhibit hepatic glucose production or for treating glucose-metabolism-  
XX related disorder e.g. diabetes or type-2 diabetes. (I) is useful for  
XX treating the diseases as mentioned above, cancer (e.g. breast, colon or  
XX lung cancer), neurological disease (e.g., Huntington disease or  
XX spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence  
XX represents a human apolipoprotein B (ApoB) antisense oligonucleotide that  
XX can be used to control ApoB gene expression.  
XX Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;  
XX Query Match 56.2%; Score 11.8; DB 13; Length 19;  
XX Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
XX  
XX 7 TATCTGAGAGCTCTG 21  
XX | | | | | | | | | |  
XX 16 TTTCGAGAGCCTG 2  
XX  
XX RESULT 38  
XX ADR75873/c  
XX ID ADR75873 standard; DNA; 19 BP.  
XX

CC inhibit hepatic glucose production or for treating glucose-metabolism-  
 CC related disorder e.g. diabetes or type-2 diabetes, (I) is useful for  
 CC treating the diseases as mentioned above, cancer (e.g. breast, colon or  
 CC lung cancer), neurological disease (e.g., Huntington disease or  
 CC spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence  
 CC represents a human apolipoprotein B (ApoB) antisense oligonucleotide that  
 CC can be used to control ApoB gene expression.  
 XX Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;  
 SQ

Query Match 56.2%; Score 11.8; DB 13; Length 19;  
 Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGCTCTG 21  
 Db 17 TTTCTGAAGAGCCTG 3

RESULT 39  
 ADR77702/C  
 ID ADR77702 standard; DNA; 19 BP.  
 XX  
 AC ADR77702;  
 DT 16-DEC-2004 (first entry)  
 DE Human apolipoprotein B (ApoB) oligonucleotide seqid 2187.  
 KW antilipemic; cardiatic; vasotropic; antiarteriosclerotic; antidiabetic;  
 KW cytosatic; anticonvulsant; nootropic; muscular; anti-HIV;  
 KW RNA interference; RNA; antisense technology; lipid metabolism;  
 KW cholesterol imbalance; dyslipidaemia hypercholesterolaemia;  
 KW coronary artery disease; CAD; coronary heart disease; CHD;  
 KW atherosclerosis; hepatic glucose production;  
 KW glucose-metabolism-related disorder; diabetes; cancer; breast cancer;  
 KW colon cancer; lung cancer; neurological disease; Huntington disease;  
 KW spinocerebellar ataxia; viral disease; AIDS; apolipoprotein B; apoB; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004080406-A2.  
 XX  
 PD 23-SEP-2004.  
 XX  
 PF 08-MAR-2004; 2004WO-US007070.  
 XX  
 PR 07-MAR-2003; 2003US-0452682P.  
 PR 12-MAR-2003; 2003US-0454265P.  
 PR 13-MAR-2003; 2003US-0454962P.  
 PR 14-MAR-2003; 2003US-0455050P.  
 PR 17-APR-2003; 2003US-0462894P.  
 PR 17-APR-2003; 2003US-0463772P.  
 PR 25-APR-2003; 2003US-0465665P.  
 PR 25-APR-2003; 2003US-0465802P.  
 PR 09-MAY-2003; 2003US-0469612P.  
 PR 08-AUG-2003; 2003US-0493986P.  
 PR 11-AUG-2003; 2003US-0494597P.  
 PR 26-SEP-2003; 2003US-0506341P.  
 PR 09-OCT-2003; 2003US-0510246P.  
 PR 10-OCT-2003; 2003US-0510318P.  
 PR 07-NOV-2003; 2003US-0518453P.  
 XX  
 FA (ALNY-) ALNYLAM PHARM.  
 XX  
 PI Manoharan M, Bumcrot D;  
 XX  
 DR WPI; 2004-677362/66.  
 XX  
 PT Interference RNA agent useful for treating dyslipidemias, coronary artery  
 PT disease, diabetes, cancer or neurological disease, comprises sense  
 PT sequence and antisense sequence which has specific modifications.  
 XX

PS Example 5; SEQ ID NO 2187; 378bp; English.  
 XX  
 CC The invention describes a RNA interference (iRNA) agent (I) comprising a  
 CC sense sequence and an antisense sequence, where the sense sequences have  
 CC one or more asymmetrical 2'-O alkyl modifications, the antisense  
 CC sequences have one or more asymmetrical phosphorothioate modifications  
 CC and the antisense sequence targets a human gene sequence. Also described  
 CC are: a pharmaceutical preparation comprising (I); reducing (MI) apoB-100  
 CC levels or glucose-6-phosphatase levels in a subject; producing (I);  
 CC stabilising (I), involves selecting a sequence with activity and  
 CC introducing one or more asymmetrical modification in the sequence, where  
 CC the modification decreases nuclease sensitivity while not decreasing its  
 CC activity; a kit comprising (I) and instruction for its use; and a device  
 CC that can be dispense or administer a composition comprising (I). (I) is  
 CC useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (MI)  
 CC is useful for reducing apoB-100 levels or glucose-6-phosphatase levels.  
 CC The subject is suffering from a disorder characterised by elevated or  
 CC otherwise unwanted expression of apoB-100, elevated or otherwise unwanted  
 CC levels of cholesterol, and/or dysregulation of lipid metabolism. The  
 CC disorder is chosen from the HDL/LDL cholesterol imbalance,  
 CC dyslipidaemias, hypercholesterolaemia, statin-resistant  
 CC hypercholesterolaemia, coronary artery disease (CAD), coronary heart  
 CC disease (CHD) and atherosclerosis. (I) is administered to a subject to  
 CC inhibit hepatic glucose production or for treating glucose-metabolism-  
 CC related disorder e.g. diabetes or type-2 diabetes. (I) is useful for  
 CC treating the diseases as mentioned above, cancer (e.g. breast, colon or  
 CC lung cancer), neurological disease (e.g., Huntington disease or  
 CC spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence  
 CC represents a human apolipoprotein B (ApoB) antisense oligonucleotide that  
 CC can be used to control ApoB gene expression.  
 XX  
 SQ Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 56.2%; Score 11.8; DB 13; Length 19;  
 Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGCTCTG 21  
 Db 17 TTTCTGAAGAGCCTG 3

RESULT 40  
 ADR78491/C  
 ID ADR78491 standard; DNA; 19 BP.  
 XX  
 AC ADR78491;  
 DT 16-DEC-2004 (first entry)  
 DE Human apolipoprotein B (ApoB) oligonucleotide seqid 2976.  
 XX  
 KW antilipemic; cardiatic; vasotropic; antiarteriosclerotic; antidiabetic;  
 KW cytosatic; anticonvulsant; nootropic; muscular; anti-HIV;  
 KW RNA interference; RNA; antisense technology; lipid metabolism;  
 KW cholesterol imbalance; dyslipidaemia hypercholesterolaemia;  
 KW coronary artery disease; CAD; coronary heart disease; CHD;  
 KW atherosclerosis; hepatic glucose production;  
 KW glucose-metabolism-related disorder; diabetes; cancer; breast cancer;  
 KW colon cancer; lung cancer; neurological disease; Huntington disease;  
 KW spinocerebellar ataxia; viral disease; AIDS; apolipoprotein B; apoB; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004080406-A2.  
 XX  
 PD 23-SEP-2004.  
 XX  
 PF 08-MAR-2004; 2004WO-US007070.  
 XX  
 PR 07-MAR-2003; 2003US-0452682P.  
 PR 12-MAR-2003; 2003US-0454265P.  
 PR 13-MAR-2003; 2003US-0454962P.  
 PR 14-MAR-2003; 2003US-0455050P.  
 PR 17-APR-2003; 2003US-0462894P.  
 PR 17-APR-2003; 2003US-0463772P.  
 PR 25-APR-2003; 2003US-0465665P.  
 PR 25-APR-2003; 2003US-0465802P.  
 PR 09-MAY-2003; 2003US-0469612P.  
 PR 08-AUG-2003; 2003US-0493986P.  
 PR 11-AUG-2003; 2003US-0494597P.  
 PR 26-SEP-2003; 2003US-0506341P.  
 PR 09-OCT-2003; 2003US-0510246P.  
 PR 10-OCT-2003; 2003US-0510318P.  
 PR 07-NOV-2003; 2003US-0518453P.  
 XX  
 FA (ALNY-) ALNYLAM PHARM.  
 XX  
 PI Manoharan M, Bumcrot D;  
 XX  
 DR WPI; 2004-677362/66.  
 XX  
 PT Interference RNA agent useful for treating dyslipidemias, coronary artery  
 PT disease, diabetes, cancer or neurological disease, comprises sense  
 PT sequence and antisense sequence which has specific modifications.  
 XX

PR 13-MAR-2003; 2003US-0455050P.  
 PR 14-APR-2003; 2003US-0462894P.  
 PR 17-APR-2003; 2003US-0463772P.  
 PR 25-APR-2003; 2003US-0465665P.  
 PR 25-APR-2003; 2003US-0465802P.  
 PR 09-MAY-2003; 2003US-0469612P.  
 PR 08-AUG-2003; 2003US-0493986P.  
 PR 11-AUG-2003; 2003US-0494597P.  
 PR 26-SEP-2003; 2003US-0506341P.  
 PR 09-OCT-2003; 2003US-0510246P.  
 PR 10-OCT-2003; 2003US-0510318P.  
 PR 07-NOV-2003; 2003US-0518453P.

XX (ALNY-) ALNYLAM PHARM.  
 XX

XX Manoharan M, Bumcrot D;  
 XX

XX WPI; 2004-677362/66.  
 XX

XX Interference RNA agent useful for treating dyslipidemias, coronary artery  
 PT disease, diabetes, cancer or neurological disease, comprises sense  
 PT sequence and antisense sequence which has specific modifications.  
 XX

XX Example 5; SEQ ID NO 2376; 378bp; English.  
 XX

XX The invention describes a RNA interference (irna) agent (I) comprising a  
 CC sense sequence and an antisense sequence, where the sense sequences have  
 CC one or more asymmetrical 2'-O alkyl modifications, the antisense  
 CC sequences have one or more asymmetrical phosphorothioate modifications  
 CC and the antisense sequence targets a human gene sequence. Also described  
 CC are: a pharmaceutical preparation comprising (I); reducing (M1) apoB-100  
 CC levels or glucose-6-phosphatase levels in a subject; producing (I);  
 CC stabilising (I), involves selecting a sequence with activity and  
 CC introducing one or more asymmetrical modification in the sequence, where  
 CC the modification decreases nuclease sensitivity while not decreasing its  
 CC activity; a kit comprising (I) and instruction for its use; and a device  
 CC that can be dispense or administer a composition comprising (I). (I) is  
 CC useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (M1)  
 CC is useful for reducing apoB-100 levels or glucose-6-phosphatase levels.  
 CC The subject is suffering from a disorder characterised by elevated or  
 CC otherwise unwanted expression of apoB-100, elevated or otherwise unwanted  
 CC levels of cholesterol, and/or dysregulation of lipid metabolism. The  
 CC disorder is chosen from the HDL/LDL cholesterol imbalance,  
 CC dyslipidaemias, hypercholesterolaemia, statin-resistant  
 CC hypercholesterolaemia, coronary artery disease (CAD), coronary heart  
 CC disease (CHD) and atherosclerosis. (I) is administered to a subject to  
 CC inhibit hepatic glucose production or for treating glucose-metabolism-  
 CC related disorder e.g. diabetes or type-2 diabetes. (I) is useful for  
 CC treating the diseases as mentioned above, cancer (e.g. breast, colon or  
 CC lung cancer), neurological disease (e.g., Huntington disease or  
 CC spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence  
 CC represents a human apolipoprotein B (ApoB) antisense oligonucleotide that  
 CC can be used to control ApoB gene expression.  
 XX

SQ Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 56.2%; Score 11.8; DB 13; Length 19;  
 Best Local Similarity 86.7%; Pred. NO. 3.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 7 TATCTGAAGAGTCTG 21  
 |||||  
 Db 17 TTTCTGAAGAGCTG 3

Search completed: August 12, 2005, 10:07:01  
 Job time : 244 secs

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## ALIGNMENTS

RESULT 1  
US-08-842-079-3  
; Sequence 3, Application US/08842079  
; Patent No. 6133434  
; GENERAL INFORMATION:  
; APPLICANT: BUELL, GARY N.  
; APPLICANT: SURPRENANT, ANNMARIE  
; APPLICANT: KAWASHIMA, ERIC  
; TITLE OF INVENTION: A PURINERGIC RECEPTOR  
; FILE REFERENCE: 1430-160  
; CURRENT APPLICATION NUMBER: US/08/842,079  
; CURRENT FILING DATE: 1997-04-28  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic  
US-08-842-079-3

Query Match 61.9%; Score 13; DB 3; Length 20;  
Best Local Similarity 100.0%; Pred. No. 2.9e+03;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GGCCTATCTGAAG 15  
|||||  
DB 1 GGCCTATCTGAAG 13

RESULT 2  
US-09-638-857-3  
; Sequence 3, Application US/09638857  
; Patent No. 6509163  
; GENERAL INFORMATION:  
; APPLICANT: BUELL, GARY N.  
; APPLICANT: SURPRENANT, ANNMARIE  
; APPLICANT: KAWASHIMA, ERIC  
; TITLE OF INVENTION: A PURINERGIC RECEPTOR  
; FILE REFERENCE: 1430-160  
; CURRENT APPLICATION NUMBER: US/09/638,857  
; CURRENT FILING DATE: 2000-08-15  
; PRIOR APPLICATION NUMBER: 08/842,079  
; PRIOR FILING DATE: 1997-04-28  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic  
US-09-638-857-3

Query Match 61.9%; Score 13; DB 4; Length 20;  
Best Local Similarity 100.0%; Pred. No. 2.9e+03;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GGCCTATCTGAAG 15  
|||||  
DB 1 GGCCTATCTGAAG 13

RESULT 3  
US-08-985-162-448/c  
; Sequence 448, Application US/08985162  
; Patent No. 6057156

; GENERAL INFORMATION:  
; APPLICANT: Akhtar, Saghir  
; APPLICANT: Fell, Patricia  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT  
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
; TITLE OF INVENTION: FACTOR RECEPTORS  
; NUMBER OF SEQUENCES: 1877  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSeq for Windows 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/985,162  
; FILING DATE: 04 December 1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/036,476  
; FILING DATE: 31 January 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 230/107  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 448:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-985-162-448  
  
Query Match 61.0%; Score 12.8; DB 3; Length 17;  
Best Local Similarity 87.5%; Pred. No. 3.6e+03;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 6 GTATCTGAAGTCTG 21  
|||||  
DB 16 GTATCGAAGAGTCTG 1  
  
RESULT 4  
US-09-401-063-448/c  
; Sequence 448, Application US/09401063  
; Patent No. 6623962  
; GENERAL INFORMATION:  
; APPLICANT: Akhtar, Saghir  
; APPLICANT: Fell, Patricia  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT  
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
; TITLE OF INVENTION: FACTOR RECEPTORS  
; NUMBER OF SEQUENCES: 1877  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles

```
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 448:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-401-063-448

Query Match 61.0%; Score 12.8; DB 4; Length 17;
Best Local Similarity 87.5%; Pred. No. 3.6e+03;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCTG 21
Db 16 GTATCGAAGAGTCTG 1

RESULT 5
US-08-450-905B-134/c
; Sequence 134, Application US/08450905B
; Patent No. 5856301
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Stem Cell Inhibiting Proteins
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HALE and DORR
; STREET: 60 State Street
; CITY: Boston
; STATE: MA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/450,905B
; FILING DATE: 26-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/982,759
; FILING DATE: 08-MAR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9127319.3
; FILING DATE: 23-DEC-1991
; INFORMATION FOR SEQ ID NO: 449:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
```

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; FILING DATE: 14-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: BAKER, HOLLIE L.
; REGISTRATION NUMBER: 31,321
; REFERENCE/DOCKET NUMBER: 102.378.120DV-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-526-6110
; TELEFAX: 617-526-5000
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..20
; OTHER INFORMATION: /product= "BB9513 oligomer"
; US-08-450-905B-134

Query Match 61.0%; Score 12.8; DB 2; Length 20;
Best Local Similarity 87.5%; Pred. No. 3.6e+03;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAGA 16
Db 17 CTGACGCATCTGAAGA 2

RESULT 6
US-07-982-759F-134/c
; Sequence 134, Application US/07982759F
; Patent No. 6057123
; GENERAL INFORMATION:
; APPLICANT: CRAIG, Stewart
; APPLICANT: GEORGE, Michael
; APPLICANT: EDWARDS, Richard Mark
; APPLICANT: CZAPLEWSKI, Lloyd George
; APPLICANT: GILBERT, Richard
; TITLE OF INVENTION: Stem Cell Inhibiting Proteins
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HALE and DORR LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: MA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/982,759F
; FILING DATE: 08-MAR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9127319.3
; FILING DATE: 23-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9221587.0
; FILING DATE: 14-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: BAKER, HOLLIE L.
; REGISTRATION NUMBER: 31,321
; REFERENCE/DOCKET NUMBER: 102378.120
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-526-6000
; TELEFAX: 617-526-5000
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
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STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: 1..20  
OTHER INFORMATION: /product= "BB9513 oligomer"  
US-07-982-759F-134

Query Match 61.0%; Score 12.8; DB 3; Length 20;  
Best Local Similarity 87.5%; Pred. No. 3.6e+03;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGCTATCTGAAGA 16  
Db 17 CTGACGCATCTGAAGA 2

RESULT 7  
US-08-985-162-449/c  
; Sequence 449, Application US/08985162  
; Patent No. 6057156  
; GENERAL INFORMATION:  
; APPLICANT: Akhtar, Saghir  
; APPLICANT: Fell, Patricia  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT  
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
; TITLE OF INVENTION: FACTOR RECEPTORS  
; NUMBER OF SEQUENCES: 1877  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSeq for Windows 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/985,162  
; FILING DATE: 04 December 1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/036,476  
; FILING DATE: 31 January 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 230/107  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 449:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-08-985-162-449  
Query Match 58.1%; Score 12.2; DB 3; Length 17;  
Best Local Similarity 82.4%; Pred. No. 7.2e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 4 GCGTATCTGAAGAGTCT 20

Db 17 GCGTATCGAAGAGTCT 1  
RESULT 8  
US-09-401-063-449/c  
; Sequence 449, Application US/09401063  
; Patent No. 6623962  
; GENERAL INFORMATION:  
; APPLICANT: Akhtar, Saghir  
; APPLICANT: Fell, Patricia  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT  
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
; TITLE OF INVENTION: FACTOR RECEPTORS  
; NUMBER OF SEQUENCES: 1877  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSeq for Windows 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/401,063  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/985,162  
; FILING DATE: 04 December 1997  
; APPLICATION NUMBER: 60/036,476  
; FILING DATE: 31 January 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 230/107  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 449:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-09-401-063-449

Query Match 58.1%; Score 12.2; DB 4; Length 17;  
Best Local Similarity 82.4%; Pred. No. 7.2e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCT 20  
Db 17 GCGTATCGAAGAGTCT 1

RESULT 9  
US-08-717-291-8  
; Sequence 8, Application US/08717291  
; Patent No. 5908773  
; GENERAL INFORMATION:  
; APPLICANT: Cesarman, Ethel  
; APPLICANT: Arvanitakis, Leandros  
; APPLICANT: Knowles, Daniel M.

APPLICANT: Mesri, Enrique  
TITLE OF INVENTION: KSHV POSITIVE CELL LINES  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: NIXON, HARGRAVE, DEVANS & DOYLE LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: USA  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/717,291  
FILING DATE:  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: BRAMAN, SUSAN J.  
REGISTRATION NUMBER: 34,103  
REFERENCE/DOCKET NUMBER: 19603/1360  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 716-263-1636  
TELEFAX: 716-263-1600  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-717-291-8

Query Match 58.1%; Score 12.2; DB 2; Length 20;  
Best Local Similarity 82.4%; Pred. No. 7.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CGTATCTCAAGAGTCTG 21  
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Db 1 CGGAGCTAAAGAGTCTG 17

RESULT 10  
US-08-728-603-8  
Sequence 8, Application US/08728603  
Patent No. 6093806  
GENERAL INFORMATION:  
APPLICANT: Cesarman, Ethel  
APPLICANT: Knowles, Daniel M.  
TITLE OF INVENTION: PROTEINS OF KAPOSI'S SARCOMA ASSOCIATED  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: NIXON, HARGRAVE, DEVANS & DOYLE LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: USA  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/728,603  
FILING DATE: 10-OCT-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: BRAMAN, SUSAN J.  
REGISTRATION NUMBER: 34,103

REFERENCE/DOCKET NUMBER: 19603/720  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 716-263-1636  
TELEFAX: 716-263-1600  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-728-603-8

Query Match 58.1%; Score 12.2; DB 3; Length 20;  
Best Local Similarity 82.4%; Pred. No. 7.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CGTATCTCAAGAGTCTG 21  
||| ||| ||| ||| ||| ||| |||  
Db 1 CGGAGCTAAAGAGTCTG 17

RESULT 11  
US-09-433-699-73/c  
Sequence 73, Application US/09433699B  
Patent No. 6165786  
GENERAL INFORMATION:  
APPLICANT: C. Frank Bennett  
APPLICANT: Lex M. Cowsett  
TITLE OF INVENTION: ANTISENSE MODULATION OF NUCLEOLIN EXPRESSION  
FILE REFERENCE: RTS-0109  
CURRENT APPLICATION NUMBER: US/09/433.699B  
CURRENT FILING DATE: 1999-11-03  
NUMBER OF SEQ ID NOS: 89  
SEQ ID NO 73  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense Oligonucleotide  
US-09-433-699-73

Query Match 57.1%; Score 12; DB 3; Length 20;  
Best Local Similarity 75.0%; Pred. No. 9.3e+03;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 TGGCGTATCTCAAGAGTCTG 21  
||| ||| ||| ||| ||| ||| |||  
Db 20 TGGCAATCTAAAGGTATG 1

RESULT 12  
US-09-371-772B-5737  
Sequence 5737, Application US/09371772B  
Patent No. 6566127  
GENERAL INFORMATION:  
APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Pavco, Pam  
APPLICANT: McSwiggen, Jim  
APPLICANT: Stinchcomb, Dan  
APPLICANT: Escobedo, Jaime  
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
FILE REFERENCE: MEHB00,876-J (237/198)  
CURRENT APPLICATION NUMBER: US/09/371,772B  
CURRENT FILING DATE: 1999-08-10  
PRIOR APPLICATION NUMBER: US 60/005,974  
PRIOR FILING DATE: 1995-10-26  
PRIOR APPLICATION NUMBER: US 08/584,040  
PRIOR FILING DATE: 1996-01-08  
NUMBER OF SEQ ID NOS: 14225  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 5737

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; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5737

Query Match          56.2%; Score 11.8; DB 4; Length 16;
Best Local Similarity 73.3%; Pred. No. 1.1e+04;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GGCCTATCTGAAGAG 17
Db 2 GACGUAACUGAAGAG 16

RESULT 13
US-07-852-260-4
; Sequence 4, Application US/07852260
; Patent No. 5525715
; GENERAL INFORMATION:
; APPLICANT: Racaniello, Vincent
; APPLICANT: Tatem, Joanne M.
; APPLICANT: Weeks-Levy, Carolyn L.
; TITLE OF INVENTION: METHODS FOR PRODUCING RNA VIRUSES FROM
; TITLE OF INVENTION: CDNA
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham
; STREET: 30 Rockefeller Plaza
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10112
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/852,260
; FILING DATE: 19920619
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 36607-B-PCT-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 977-9550
; TELEFAX: (212) 664-0525
; TELEX: 422523 COOP UI
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-07-852-260-4

Query Match          56.2%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 1.1e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGCTATCTGAAGAG 17
Db 1 GCGCTATCTGACAG 15

RESULT 14
US-07-936-421-18
; Sequence 18, Application US/07936421
; Patent No. 5750390
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```
; GENERAL INFORMATION:
; APPLICANT: James D. Thompson
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: TREATMENT OF DISEASES CAUSED
; TITLE OF INVENTION: BY EXPRESSION OF THE BCL-2
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/936,421
; FILING DATE: 19920826
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 197/243
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-936-421-18

Query Match          56.2%; Score 11.8; DB 1; Length 17;
Best Local Similarity 53.3%; Pred. No. 1.1e+04;
Matches 8; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCT 20
Db 3 GUCUCUGAAGACUCU 17

RESULT 15
US-08-461-503-4
; Sequence 4, Application US/08461503
; Patent No. 5834302
; GENERAL INFORMATION:
; APPLICANT: Racaniello, Vincent
; APPLICANT: Tatem, Joanne M.
; APPLICANT: Weeks-Levy, Carolyn L.
; TITLE OF INVENTION: METHODS FOR PRODUCING RNA VIRUSES
; TITLE OF INVENTION: FROM CDNA
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10112
; COMPUTER READABLE FORM:
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MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA: US/08/461,503  
 FILING DATE: 5-JUN-1995  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: White, John P.  
 REGISTRATION NUMBER: 28,678  
 REFERENCE/DOCKET NUMBER: 36607-D-PCT-US  
 TELEPHONE: (212) 278-0400  
 TELEFAX: (212) 391-0525  
 TELEX: 422523 COOP UI  
 INFORMATION FOR SEQ ID NO: 4:  
 LENGTH: 17 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 US-08-461-503-4

Query Match 56.2%; Score 11.8; DB 2; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 1.1e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGTATCTGAAGAG 17  
 Db 1 GCGTATCTGAAGAG 15

RESULT 16  
 US-08-985-162-447/c  
 Sequence 447, Application US/08985162  
 Patent No. 6057156  
 GENERAL INFORMATION:  
 APPLICANT: Akhtar, Saghir  
 APPLICANT: Fell, Patricia  
 APPLICANT: McSwiggen, James  
 TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
 TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
 TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
 TITLE OF INVENTION: FACTOR RECEPTORS  
 NUMBER OF SEQUENCES: 1877  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Lyon & Lyon  
 STREET: 633 West Fifth Street  
 STREET: Suite 4700  
 CITY: Los Angeles  
 STATE: California  
 COUNTRY: U.S.A.  
 ZIP: 90071-2066  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 MEDIUM TYPE: storage  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: IBM P.C. DOS 5.0  
 SOFTWARE: FastSeq for Windows 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/985,162  
 FILING DATE: 04 December 1997  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 60/036,476  
 FILING DATE: 31 January 1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Warburg, Richard J.  
 REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 230/107  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (213) 489-1600  
 TELEFAX: (213) 955-0440  
 TELEX: 67-3510  
 INFORMATION FOR SEQ ID NO: 447:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 17 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 US-08-985-162-447

Query Match 56.2%; Score 11.8; DB 3; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 1.1e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGTCTG 21  
 Db 17 TATCGAAGAGTCTG 3

RESULT 17  
 US-08-465-250-4  
 Sequence 4, Application US/08465250  
 Patent No. 6136570  
 GENERAL INFORMATION:  
 APPLICANT: Racaniello, Vincent  
 APPLICANT: Tatem, Joanne M.  
 APPLICANT: Weeks-Levy, Carolyn L.  
 TITLE OF INVENTION: METHODS FOR PRODUCING RNA VIRUSES FROM  
 TITLE OF INVENTION: CDNA  
 NUMBER OF SEQUENCES: 9  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Cooper & Dunham LLP  
 STREET: 1185 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 10036  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release 1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/465,250  
 FILING DATE: 6-JUN-1995  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: White, John P.  
 REGISTRATION NUMBER: 28,678  
 REFERENCE/DOCKET NUMBER: 36607-E-PCT-US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 278-0400  
 TELEFAX: (212) 391-0525  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 17 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 US-08-465-250-4

Query Match 56.2%; Score 11.8; DB 3; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 1.1e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGTATCTGAAGAG 17

```
Db      1 GGCCTATCTGACAAG 15
|||||
RESULT 18
US-09-371-772B-4438
; Sequence 4438, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MEHB00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4438
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-4438

Query Match      56.2%; Score 11.8; DB 4; Length 17;
Best Local Similarity 73.3%; Pred. No. 1.1e+04;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      3 GGCCTATCTGAGAAG 17
|||||
Db      1 GACGUACUGNAGAG 15
|||||
RESULT 19
US-09-401-063-447/c
; Sequence 447, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION NUMBER: 08/985,162
```

```
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 447:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-401-063-447

Query Match      56.2%; Score 11.8; DB 4; Length 17;
Best Local Similarity 86.7%; Pred. No. 1.1e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      7 TATCTGAAGAGTCTG 21
|||||
Db      17 TATCGAAGAGTCTG 3
|||||
RESULT 20
US-09-488-857B-38/c
; Sequence 38, Application US/09488857B
; Patent No. 6255110
; GENERAL INFORMATION:
; APPLICANT: Lex M. Cowser
; APPLICANT: Jacqueline Wyatt
; TITLE OF INVENTION: ANTISENSE MODULATION OF ARA70 EXPRESSION
; FILE REFERENCE: RTS-0117
; CURRENT APPLICATION NUMBER: US/09/488,857B
; CURRENT FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-488-857B-38

Query Match      56.2%; Score 11.8; DB 3; Length 20;
Best Local Similarity 86.7%; Pred. No. 1.2e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CTGCGGTATCTGAAG 15
|||||
Db      16 CTGCGCAATCTGAAG 2
|||||
RESULT 21
US-09-198-452A-1366
; Sequence 1366, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Grifflais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1366
; LENGTH: 20
; TYPE: DNA
```



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; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-1366

Query Match          56.2%; Score 11.8; DB 4; Length 20;
Best Local Similarity 86.7%; Pred. No. 1.2e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGACT 18
    ||| ||| ||| ||| |||
Db 1 GCGGATCTGAGGACT 15

RESULT 22
US-09-478-189-118/c
; Sequence 118, Application US/09478189
; Patent No. 6534293
; GENERAL INFORMATION:
; APPLICANT: Barany, Francis
; APPLICANT: Liu, Jianzhao
; APPLICANT: Kirk, Brian W.
; APPLICANT: Zirvi, Monib
; APPLICANT: Gerry, No. 6534293man P.
; APPLICANT: Pary, Philip B.
; TITLE OF INVENTION: ACCELERATING IDENTIFICATION OF SINGLE NUCLEOTIDE
; TITLE OF INVENTION: POLYMORPHISMS AND ALIGNMENT OF CLONES IN GENOMIC
; TITLE OF INVENTION: SEQUENCING
; FILE REFERENCE: 19603/2621
; CURRENT APPLICATION NUMBER: US/09/478,189
; CURRENT FILING DATE: 2000-01-05
; PRIOR APPLICATION NUMBER: 60/114,881
; PRIOR FILING DATE: 1999-01-06
; NUMBER OF SEQ ID NOS: 181
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 118
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: probe/primer
US-09-478-189-118

Query Match          56.2%; Score 11.8; DB 4; Length 21;
Best Local Similarity 86.7%; Pred. No. 1.2e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGGTATCTGAAG 15
    ||| ||| ||| ||| |||
Db 17 CTGGGTGTCCTGAAG 3

RESULT 23
US-09-280-805-129
; Sequence 129, Application US/09280805
; Patent No. 6184212
; GENERAL INFORMATION:
; APPLICANT: Loren J. Miraglia, Pamela Nero, Mark J.
; APPLICANT: Graham, Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF HUMAN MDM2
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 271
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Jane Massey Licata
; STREET: 66 East Main Street
; CITY: Marlton
; STATE: NJ
; COUNTRY: U.S.A.
; ZIP: 08053
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
; COMPUTER: IBM PC
; OPERATING SYSTEM: WINDOWS 95
; SOFTWARE: WORDPERFECT 6.0
; CURRENT APPLICATION DATA:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
```

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; APPLICATION NUMBER: US/09/280,805
; FILING DATE: herewith
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: 09/048,810
; FILING DATE: March 26, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Licata, Jane Massey
; REGISTRATION NUMBER: 32,257
; REFERENCE/DOCKET NUMBER: ISPH-0346
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-810-1515
; TELEFAX: 609-810-1454
; INFORMATION FOR SEQ ID NO: 129:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; ANTI-SENSE: Yes
US-09-280-805-129

Query Match          55.2%; Score 11.6; DB 3; Length 20;
Best Local Similarity 77.8%; Pred. No. 1.5e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 TGGCGTATCTGAAGATC 19
    ||| ||| ||| ||| |||
Db 1 TGGCGTCCCTGTAGATC 18

RESULT 24
US-09-517-467B-30
; Sequence 30, Application US/09517467B
; Patent No. 8451602
; GENERAL INFORMATION:
; APPLICANT: Ian Popoff
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF PARP EXPRESSION
; FILE REFERENCE: RPS-0150
; CURRENT APPLICATION NUMBER: US/09/517,467B
; CURRENT FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 09/517,467
; PRIOR FILING DATE: 2000-03-02
; NUMBER OF SEQ ID NOS: 345
; SEQ ID NO 30
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-517-467B-30

Query Match          55.2%; Score 11.6; DB 3; Length 20;
Best Local Similarity 77.8%; Pred. No. 1.5e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGATCTG 21
    ||| ||| ||| ||| |||
Db 1 GCTTATCCGAAGACTCCG 18

RESULT 25
US-09-198-452A-2767/c
; Sequence 2767, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
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; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 2767
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-2767

Query Match      55.2%; Score 11.6; DB 4; Length 20;
Best Local Similarity 77.8%; Pred. No. 1.5e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      4 GCCTATCTCTGAAGAGCTCTG 21
Db      20 GCCTCTCTGAACAGACTG 3

RESULT 26
US-09-657-289A-12/c
; Sequence 12, Application US/09657289A
; Patent No. 6737245
; GENERAL INFORMATION:
; APPLICANT: Francis, Kevin P.
; APPLICANT: Contag, Pamela R.
; APPLICANT: Joh, Danny J.
; TITLE OF INVENTION: LUCIFERASE EXPRESSION CASSETTES AND METHODS OF USE
; FILE REFERENCE: 9400-0006
; CURRENT APPLICATION NUMBER: US/09/657,289A
; CURRENT FILING DATE: 2000-09-07
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: LUXA-REV
US-09-657-289A-12

Query Match      55.2%; Score 11.6; DB 4; Length 20;
Best Local Similarity 77.8%; Pred. No. 1.5e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      4 GCCTATCTCTGAAGAGCTCTG 21
Db      19 GCATCTCTGAGGAGTG 2

RESULT 27
US-09-657-472-1916/c
; Sequence 1916, Application US/09657472
; Patent No. 6727063
; GENERAL INFORMATION:
; APPLICANT: Lander, Eric S.
; APPLICANT: Cargill, Michele
; APPLICANT: Ireland, James S.
; APPLICANT: Bolk, Stacey
; APPLICANT: Daley, George Q.
; APPLICANT: McCarthy, Jeanette J.
; TITLE OF INVENTION: SINGLE NUCLEOTIDE POLYMORPHISMS IN GENES
; FILE REFERENCE: 2825-1027-001
; CURRENT APPLICATION NUMBER: US/09/657,472
; CURRENT FILING DATE: 2000-09-07
; PRIOR APPLICATION NUMBER: US 60/153,357
; PRIOR FILING DATE: 1999-09-10
; PRIOR APPLICATION NUMBER: US 60/220,947
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: US 60/225,724
; PRIOR FILING DATE: 2000-08-16
; NUMBER OF SEQ ID NOS: 2551
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1916
; LENGTH: 21
```

```
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-657-472-1916

Query Match      55.2%; Score 11.6; DB 4; Length 21;
Best Local Similarity 91.7%; Pred. No. 1.5e+04;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      10 CTGAAGAGTCTG 21
Db      16 CTGARAGACTG 5

RESULT 28
US-09-422-978-6486/c
; Sequence 6486, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSER.020CPI
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 6486
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-11786 for SEQ 2552,
US-09-422-978-6486

Query Match      54.3%; Score 11.4; DB 4; Length 19;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 CTGGCGTATCTGA 13
Db      17 CTGGCTTATCTGA 5

RESULT 29
US-08-602-093-12/c
; Sequence 12, Application US/08602093
; Patent No. 5837535
; GENERAL INFORMATION:
; APPLICANT: Joseph, Rajiv
; APPLICANT: Dou, Dexian
; TITLE OF INVENTION: A NOVEL NEURONAL-NEONATAL GENE:
; TITLE OF INVENTION: NEURONATIN
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kohn & Associates
; STREET: 30500 No. 5837535thwestern Hwy.
; CITY: Farmington Hills
; STATE: Michigan
; COUNTRY: US
; ZIP: 48334
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
```

```
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/602.093
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Kohn, Kenneth I.
; REGISTRATION NUMBER: 30,995
; REFERENCE/DOCKET NUMBER: 1059.00015
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810) 539-5050
; TELEFAX: (810) 539-5055
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-08-602-093-12
;
; Query Match 54.3%; Score 11.4; DB 2; Length 20;
; Best Local Similarity 92.3%; Pred. No. 1.9e+04;
; Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; Qy 6 GTATCTGAAGAGT 18
; Db 19 GTACTGAAGAGT 7
;
; RESULT 30
; US-08-985-162-450/c
; Sequence 450, Application US/08985162
; Patent No. 6057156
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/985,162
; FILING DATE: 04 December 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; INFORMATION FOR SEQ ID NO: 450:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-09-743-825-8
;
; Query Match 53.3%; Score 11.2; DB 4; Length 17;
; Best Local Similarity 81.2%; Pred. No. 2.3e+04;
; Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
;
; Qy 4 GCGTATCTGAAGAGTC 19
; Db 16 GCGTATCTGAAGAGTC 1
;
; US-09-401-063-450/c
; Sequence 450, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; INFORMATION FOR SEQ ID NO: 450:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-09-401-063-450
;
; Query Match 53.3%; Score 11.2; DB 4; Length 17;
; Best Local Similarity 81.2%; Pred. No. 2.3e+04;
; Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
;
; Qy 4 GCGTATCTGAAGAGTC 19
; Db 16 GCGTATCTGAAGAGTC 1
;
; US-09-401-063-450
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```
;
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-08-985-162-450
;
; Query Match 53.3%; Score 11.2; DB 3; Length 17;
; Best Local Similarity 81.2%; Pred. No. 2.3e+04;
; Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
;
; Qy 4 GCGTATCTGAAGAGTC 19
; Db 16 GCGTATCTGAAGAGTC 1
;
; RESULT 31
; US-09-401-063-450/c
; Sequence 450, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; INFORMATION FOR SEQ ID NO: 450:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-09-401-063-450
;
; Query Match 53.3%; Score 11.2; DB 4; Length 17;
; Best Local Similarity 81.2%; Pred. No. 2.3e+04;
; Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
;
; Qy 4 GCGTATCTGAAGAGTC 19
; Db 16 GCGTATCTGAAGAGTC 1
;
; US-09-401-063-450
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RESULT 32
US-09-422-978-5682
; Sequence 5682, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 5682
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..18
; OTHER INFORMATION: upstream amplification primer 99-6097 for SEQ 1748,
US-09-422-978-5682

Query Match      53.3%; Score 11.2; DB 4; Length 18;
Best Local Similarity 81.2%; Pred. No. 2.3e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      6 GTATCTGAAGAGTCTG 21
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DB      3 GTCCTGAAAGTCTG 18

RESULT 33
US-08-555-678-57
; Sequence 57, Application US/08555678
; Patent No. 5763174
; GENERAL INFORMATION:
; APPLICANT: Nishikura, Kazuko
; TITLE OF INVENTION: RNA Editing Enzyme and Methods
; TITLE OF INVENTION: of Use Thereof
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P.O. Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/555,678
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/197,794
; FILING DATE: 17-FEB-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/280,443
; FILING DATE: 25-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/457,459
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; FILING DATE: 01-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: WST49DUSA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9206
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 57:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "primer"
US-08-555-678-57

Query Match      53.3%; Score 11.2; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY      6 GTATCTGAAGAGTCTG 21
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DB      4 GTATCTGAGCTGTG 19

RESULT 34
US-09-422-978-4659/c
; Sequence 4659, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 4659
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-16867 for SEQ 725,
US-09-422-978-4659
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Query Match      53.3%; Score 11.2; DB 4; Length 19;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 CTGGCGTATCTGAAGA 16
      ||| ||||| |||||
DB      16 CTGGCATTGTGAAGA 1

RESULT 35
US-09-696-791-466/c
; Sequence 466, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; APPLICANT: Tritz, Richard
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
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; TITLE OF INVENTION: SKIN AND EYE DISEASES
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 466
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Cdk4 ribozyme binding site
; US-09-696-791-466

Query Match      53.3%; Score 11.2; DB 4; Length 19;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      6 GTATCTGAAGAGTCTG 21
Db      19 GTAGCTGTAGATTCTG 4

RESULT 36
US-09-696-791-467/c
; Sequence 467, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; APPLICANT: Tritz, Richard
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: SKIN AND EYE DISEASES
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 467
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Cdk4 ribozyme binding site
; US-09-696-791-467

Query Match      53.3%; Score 11.2; DB 4; Length 19;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      6 GTATCTGAAGAGTCTG 21
Db      17 GTAGCTGTAGATTCTG 2

RESULT 37
US-09-488-671-22
; Sequence 22, Application US/09488671A
; Patent No. 6187545
; GENERAL INFORMATION:
; APPLICANT: Robert McKay
; APPLICANT: Madeline M. Butler
; APPLICANT: Jacqueline Wyatt
; APPLICANT: Lex M. Cowseert
; TITLE OF INVENTION: ANTISENSE MODULATION OF PEPCK-CYTOSOLIC EXPRESSION
; FILE REFERENCE: RTS-0123
; CURRENT APPLICATION NUMBER: US/09/488,671A
; CURRENT FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 177
; SEQ ID NO 22
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-488-671-22

Query Match      53.3%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      3 GCGGTATCTGAAGAGT 18
Db      5 GGCATTTCTGCAGAGT 20
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; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-488-671-22

Query Match      53.3%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      3 GCGGTATCTGAAGAGT 18
Db      1 GGCATTTCTGCAGAGT 16

RESULT 38
US-09-488-671-23
; Sequence 23, Application US/09488671A
; Patent No. 6187545
; GENERAL INFORMATION:
; APPLICANT: Robert McKay
; APPLICANT: Madeline M. Butler
; APPLICANT: Jacqueline Wyatt
; APPLICANT: Lex M. Cowseert
; TITLE OF INVENTION: ANTISENSE MODULATION OF PEPCK-CYTOSOLIC EXPRESSION
; FILE REFERENCE: RTS-0123
; CURRENT APPLICATION NUMBER: US/09/488,671A
; CURRENT FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 177
; SEQ ID NO 23
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-488-671-23

Query Match      53.3%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      3 GCGGTATCTGAAGAGT 18
Db      3 GGCATTTCTGCAGAGT 18

RESULT 39
US-09-488-671-24
; Sequence 24, Application US/09488671A
; Patent No. 6187545
; GENERAL INFORMATION:
; APPLICANT: Robert McKay
; APPLICANT: Madeline M. Butler
; APPLICANT: Jacqueline Wyatt
; APPLICANT: Lex M. Cowseert
; TITLE OF INVENTION: ANTISENSE MODULATION OF PEPCK-CYTOSOLIC EXPRESSION
; FILE REFERENCE: RTS-0123
; CURRENT APPLICATION NUMBER: US/09/488,671A
; CURRENT FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 177
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-488-671-24

Query Match      53.3%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      3 GCGGTATCTGAAGAGT 18
Db      5 GGCATTTCTGCAGAGT 20
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RESULT 40
US-09-517-584A-86/c
; Sequence 86, Application US/09517584A
; Patent NO. 6187587
; GENERAL INFORMATION:
; APPLICANT: Ian Popoff
; APPLICANT: Vickie L. Brown-Driver
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF E2F TRANSCRIPTION FACTOR 1 EXPRESSION
; FILE REFERENCE: RTS-0121
; CURRENT APPLICATION NUMBER: US/09/517,584A
; CURRENT FILING DATE: 2000-03-22
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-517-584A-86

Query Match      53.3%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      6 GTATCTGAAGAGTCTG 21
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Db     17 GTGTCTGAAGCGCCTG 2

Search completed: August 12, 2005, 11:05:05
Job time : 97 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 10:02:58 ; Search time 371 Seconds  
(without alignments)  
367.253 Million cell updates/sec

Title: US-09-743-825-8

Perfect score: 21

Sequence: 1 ctggcgatctatgaagagtctg 21

Scoring table:

IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 7305758 seqs, 3244068913 residues

Total number of hits satisfying chosen parameters: 2019958

Minimum DB seq length: 0

Maximum DB seq length: 21

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications NA:\*

- 1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq:\*
- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*
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- 10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq:\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq:\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq:\*
- 17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq:\*
- 18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq:\*
- 19: /cgn2\_6/ptodata/2/pubpna/US10G\_PUBCOMB.seq:\*
- 20: /cgn2\_6/ptodata/2/pubpna/US10H\_PUBCOMB.seq:\*
- 21: /cgn2\_6/ptodata/2/pubpna/US10I\_PUBCOMB.seq:\*
- 22: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 23: /cgn2\_6/ptodata/2/pubpna/US11A\_PUBCOMB.seq:\*
- 24: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq:\*
- 25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description         |
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| C 1        | 13.8  | 65.7        | 20     | 19 | US-10-619-739-1019  |
| C 2        | 12.8  | 61.0        | 17     | 10 | US-09-848-754A-448  |
| C 3        | 12.8  | 61.0        | 17     | 10 | US-09-848-754A-1754 |
| C 4        | 12.8  | 61.0        | 20     | 19 | US-10-619-739-630   |
| C 5        | 12.4  | 59.0        | 20     | 17 | US-10-190-366-64    |
| C 6        | 12.4  | 59.0        | 20     | 17 | US-10-190-366-261   |
| C 7        | 12.4  | 59.0        | 21     | 21 | US-10-847-918-10748 |
| C 1        | 13.8  | 65.7        | 20     | 19 | US-10-619-739-1019  |
| C 2        | 12.8  | 61.0        | 17     | 10 | US-09-848-754A-448  |
| C 3        | 12.8  | 61.0        | 17     | 10 | US-09-848-754A-1754 |
| C 4        | 12.8  | 61.0        | 20     | 19 | US-10-619-739-630   |
| C 5        | 12.4  | 59.0        | 20     | 17 | US-10-190-366-64    |
| C 6        | 12.4  | 59.0        | 20     | 17 | US-10-190-366-261   |
| C 7        | 12.4  | 59.0        | 21     | 21 | US-10-847-918-10748 |

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| Sequence 10750, A  | 21 | 21 | 59.0 | 12.4 | US-10-847-918-10750 |
| Sequence 10921, A  | 21 | 21 | 59.0 | 12.4 | US-10-847-918-10921 |
| Sequence 10922, A  | 21 | 21 | 59.0 | 12.4 | US-10-847-918-10922 |
| Sequence 10923, A  | 21 | 21 | 59.0 | 12.4 | US-10-847-918-10923 |
| Sequence 449, App  | 17 | 10 | 58.1 | 12.2 | US-09-848-754A-449  |
| Sequence 31, Appl  | 20 | 15 | 58.1 | 12.2 | US-10-003-919-31    |
| Sequence 78, Appl  | 20 | 17 | 58.1 | 12.2 | US-10-167-034-78    |
| Sequence 29, Appl  | 20 | 19 | 57.1 | 12   | US-10-317-500-29    |
| Sequence 184, App  | 20 | 19 | 57.1 | 12   | US-10-317-500-184   |
| Sequence 13349, A  | 21 | 19 | 57.1 | 12   | US-10-786-720-13349 |
| Sequence 46408, A  | 21 | 20 | 57.1 | 12   | US-10-751-736-46408 |
| Sequence 46777, A  | 21 | 20 | 57.1 | 12   | US-10-751-736-46777 |
| Sequence 5737, Ap  | 21 | 20 | 56.2 | 11.8 | US-10-138-674-5737  |
| Sequence 5737, App | 21 | 20 | 56.2 | 11.8 | US-10-287-949A-5737 |
| Sequence 447, App  | 16 | 19 | 56.2 | 11.8 | US-09-848-754A-447  |
| Sequence 577, App  | 17 | 10 | 56.2 | 11.8 | US-09-780-164-577   |
| Sequence 4438, Ap  | 17 | 18 | 56.2 | 11.8 | US-10-138-674-4438  |
| Sequence 7389, Ap  | 17 | 18 | 56.2 | 11.8 | US-10-138-674-7389  |
| Sequence 4438, Ap  | 17 | 19 | 56.2 | 11.8 | US-10-287-949A-4438 |
| Sequence 339, App  | 17 | 19 | 56.2 | 11.8 | US-10-287-949A-7389 |
| Sequence 38, Appl  | 17 | 20 | 56.2 | 11.8 | US-10-712-633-339   |
| Sequence 24, Appl  | 17 | 20 | 56.2 | 11.8 | US-10-181-991-38    |
| Sequence 94, Appl  | 20 | 17 | 56.2 | 11.8 | US-10-174-319-24    |
| Sequence 1366, Ap  | 20 | 17 | 56.2 | 11.8 | US-10-174-319-94    |
| Sequence 87, Appl  | 20 | 17 | 56.2 | 11.8 | US-10-289-762-1366  |
| Sequence 166, App  | 20 | 19 | 56.2 | 11.8 | US-10-766-185-87    |
| Sequence 118, App  | 20 | 20 | 56.2 | 11.8 | US-10-719-370A-166  |
| Sequence 862, App  | 21 | 16 | 56.2 | 11.8 | US-10-198-235-118   |
| Sequence 129, App  | 21 | 9  | 55.2 | 11.6 | US-10-643-775-862   |
| Sequence 2767, Ap  | 20 | 9  | 55.2 | 11.6 | US-09-752-383-129   |
| Sequence 46, Appl  | 20 | 9  | 55.2 | 11.6 | US-09-888-049-15    |
| Sequence 15, Appl  | 20 | 13 | 55.2 | 11.6 | US-10-094-146-4     |
| Sequence 20, Appl  | 20 | 14 | 55.2 | 11.6 | US-10-093-365-20    |
| Sequence 129, App  | 20 | 17 | 55.2 | 11.6 | US-10-005-344-129   |
| Sequence 44, Appl  | 20 | 17 | 55.2 | 11.6 | US-10-148-835-44    |
| Sequence 2767, Ap  | 20 | 17 | 55.2 | 11.6 | US-10-289-762-2767  |
| Sequence 46, Appl  | 20 | 19 | 55.2 | 11.6 | US-10-304-105-46    |
| Sequence 15, Appl  | 20 | 21 | 55.2 | 11.6 | US-10-316-232-15    |
| Sequence 1379, Ap  | 20 | 21 | 55.2 | 11.6 | US-10-831-901A-1379 |
| Sequence 1980, Ap  | 20 | 21 | 55.2 | 11.6 | US-10-831-901A-1980 |
| Sequence 1981, Ap  | 20 | 21 | 55.2 | 11.6 | US-10-831-901A-1981 |
| Sequence 12, Appl  | 20 | 22 | 55.2 | 11.6 | US-10-889-351-12    |
| Sequence 349, App  | 20 | 22 | 55.2 | 11.6 | US-10-792-280-349   |
| Sequence 1372, Ap  | 21 | 20 | 55.2 | 11.6 | US-10-792-280-1372  |
| Sequence 22299, A  | 21 | 20 | 55.2 | 11.6 | US-10-751-736-22299 |
| Sequence 1686, Ap  | 18 | 9  | 54.3 | 11.4 | US-09-969-373-1686  |
| Sequence 1688, Ap  | 18 | 9  | 54.3 | 11.4 | US-09-969-373-1688  |
| Sequence 227, App  | 18 | 9  | 54.3 | 11.4 | US-10-852-797-227   |
| Sequence 6486, Ap  | 18 | 17 | 54.3 | 11.4 | US-10-349-143-6486  |
| Sequence 68, Appl  | 19 | 17 | 54.3 | 11.4 | US-09-906-158-68    |
| Sequence 930, App  | 20 | 15 | 54.3 | 11.4 | US-10-002-623-930   |
| Sequence 28, Appl  | 20 | 17 | 54.3 | 11.4 | US-10-154-708-28    |
| Sequence 517, App  | 20 | 17 | 54.3 | 11.4 | US-10-388-263-517   |
| Sequence 136, App  | 20 | 17 | 54.3 | 11.4 | US-10-190-366-136   |
| Sequence 389, App  | 20 | 17 | 54.3 | 11.4 | US-10-190-366-389   |
| Sequence 56, Appl  | 20 | 17 | 54.3 | 11.4 | US-10-211-179-56    |
| Sequence 321, App  | 20 | 19 | 54.3 | 11.4 | US-10-648-593-321   |
| Sequence 421, App  | 20 | 19 | 54.3 | 11.4 | US-10-671-395-421   |
| Sequence 477, App  | 20 | 19 | 54.3 | 11.4 | US-10-671-395-477   |
| Sequence 528, App  | 20 | 19 | 54.3 | 11.4 | US-10-671-395-528   |
| Sequence 552, App  | 20 | 19 | 54.3 | 11.4 | US-10-671-395-552   |
| Sequence 694, App  | 20 | 19 | 54.3 | 11.4 | US-10-671-395-694   |
| Sequence 844, App  | 20 | 19 | 54.3 | 11.4 | US-10-671-395-844   |
| Sequence 955, App  | 20 | 19 | 54.3 | 11.4 | US-10-671-395-955   |
| Sequence 1110, Ap  | 20 | 19 | 54.3 | 11.4 | US-10-671-395-1110  |
| Sequence 128, App  | 20 | 19 | 54.3 | 11.4 | US-10-699-557-128   |
| Sequence 20845, A  | 21 | 19 | 54.3 | 11.4 | US-10-786-720-20845 |
| Sequence 27936, A  | 21 | 19 | 54.3 | 11.4 | US-10-751-736-27936 |
| Sequence 27939, A  | 21 | 20 | 54.3 | 11.4 | US-10-751-736-27939 |
| Sequence 29358, A  | 21 | 20 | 54.3 | 11.4 | US-10-751-736-29358 |
| Sequence 23994, A  | 21 | 20 | 54.3 | 11.4 | US-10-751-736-23994 |
| Sequence 3289, Ap  | 21 | 21 | 54.3 | 11.4 | US-10-847-918-3289  |
| Sequence 3290, Ap  | 21 | 21 | 54.3 | 11.4 | US-10-847-918-3290  |

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c 81 11.4 54.3 21 21 US-10-847-918-3291 Sequence 3291, Ap
82 11.4 54.3 21 21 US-10-847-918-4033 Sequence 4033, Ap
83 11.4 54.3 21 21 US-10-847-918-4034 Sequence 4034, Ap
c 84 11.4 54.3 21 21 US-10-847-918-4035 Sequence 4035, Ap
85 11.4 54.3 21 21 US-10-847-918-5116 Sequence 5116, Ap
86 11.4 54.3 21 21 US-10-847-918-5117 Sequence 5117, Ap
c 87 11.4 54.3 21 21 US-10-847-918-5118 Sequence 5118, Ap
88 11.4 54.3 21 21 US-10-847-918-5260 Sequence 5260, Ap
89 11.4 54.3 21 21 US-10-847-918-5261 Sequence 5261, Ap
c 90 11.4 54.3 21 21 US-10-847-918-5262 Sequence 5262, Ap
c 91 11.4 54.3 21 21 US-10-847-918-10747 Sequence 10747, A
92 11.4 54.3 21 21 US-10-847-918-10749 Sequence 10749, A
93 11.4 54.3 21 21 US-10-847-918-10752 Sequence 10752, A
94 11.2 53.3 17 10 US-09-927-046-156 Sequence 156, App
95 11.2 53.3 17 10 US-09-927-046-157 Sequence 157, App
c 96 11.2 53.3 17 10 US-09-848-754A-450 Sequence 450, App
97 11.2 53.3 17 15 US-10-156-306-4879 Sequence 4879, Ap
98 11.2 53.3 18 17 US-10-349-143-5682 Sequence 5682, Ap
99 11.2 53.3 19 10 US-09-864-636A-1817 Sequence 1817, Ap
100 11.2 53.3 19 11 US-09-864-426A-1817 Sequence 1817, Ap

ALIGNMENTS

RESULT 1
US-10-619-739-1019/c
; Sequence 1019, Application US/10619739
; Publication No. US20040175719A1
; GENERAL INFORMATION:
; APPLICANT: Christians, Frederick C.
; TITLE OF INVENTION: Synthetic Tag Genes
; FILE REFERENCE: 3502.1
; CURRENT APPLICATION NUMBER: US/10/619,739
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: 60/395,530
; PRIOR FILING DATE: 2002-07-12
; NUMBER OF SEQ ID NOS: 2068
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1019
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-739-1019
Query Match 65.7%; Score 13.8; DB 19; Length 20;
Best Local Similarity 88.2%; Pred. No. 5.4e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CGTATCTGAAGAGTCTG 21
| | | | | | | | | | | | | | | | | | | |
Db 20 CATATCTGGAGAGTCTG 4

RESULT 2
US-09-848-754A-448/c
; Sequence 448, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Growth Factor Receptors
; FILE REFERENCE: MBHB00-958-I (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 448
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
```

```
US-09-848-754A-448
Query Match 61.0%; Score 12.8; DB 10; Length 17;
Best Local Similarity 87.5%; Pred. No. 1.7e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCTG 21
| | | | | | | | | | | | | | | | | | | |
Db 16 GTATCGAAGAGTCTG 1

RESULT 3
US-09-848-754A-1754/c
; Sequence 1754, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Growth Factor Receptors
; FILE REFERENCE: MBHB00-958-I (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1754
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-1754
Query Match 61.0%; Score 12.8; DB 10; Length 17;
Best Local Similarity 87.5%; Pred. No. 1.7e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCTG 21
| | | | | | | | | | | | | | | | | | | |
Db 17 GTATCGAAGAGTCTG 2

RESULT 4
US-10-619-739-630/c
; Sequence 630, Application US/10619739
; Publication No. US20040175719A1
; GENERAL INFORMATION:
; APPLICANT: Christians, Frederick C.
; TITLE OF INVENTION: Synthetic Tag Genes
; FILE REFERENCE: 3502.1
; CURRENT APPLICATION NUMBER: US/10/619,739
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: 60/395,530
; PRIOR FILING DATE: 2002-07-12
; NUMBER OF SEQ ID NOS: 2068
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 630
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-739-630
Query Match 61.0%; Score 12.8; DB 19; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.7e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 19
| | | | | | | | | | | | | | | | | | | |
Db 17 GCGTATCTGCATAGTC 2

RESULT 5
US-10-190-366-64
; Sequence 64, Application US/10190366
```



```
; Publication No. US20040006031A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Doble
; TITLE OF INVENTION: ANTISENSE MODULATION OF HMG-COA REDUCTASE EXPRESSION
; FILE REFERENCE: PTS-0023
; CURRENT APPLICATION NUMBER: US/10/190,366
; CURRENT FILING DATE: 2002-07-02
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO 64
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-190-366-64

Query Match          59.0%; Score 12.4; DB 17; Length 20;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
      ||||| |||||
Db      3 ATCTGAGGAGTCTG 16

RESULT 6
US-10-190-366-261/c
; Sequence 261, Application US/10190366
; Publication No. US20040006031A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan M. Freier
; TITLE OF INVENTION: ANTISENSE MODULATION OF HMG-COA REDUCTASE EXPRESSION
; FILE REFERENCE: PTS-0023
; CURRENT APPLICATION NUMBER: US/10/190,366
; CURRENT FILING DATE: 2002-07-02
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO 261
; LENGTH: 20
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
US-10-190-366-261

Query Match          59.0%; Score 12.4; DB 17; Length 20;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
      ||||| |||||
Db      18 ATCTGAGGAGTCTG 5

RESULT 7
US-10-847-918-10748/c
; Sequence 10748, Application US/10847918
; Publication No. US20050119210A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Be, Xiaobing
; APPLICANT: Liu, Wei
; APPLICANT: Slonim, Donna
; APPLICANT: Howes, Steve
; TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating Cancers
; FILE REFERENCE: 031896-026000 (AM101264)
; CURRENT APPLICATION NUMBER: US/10/847,918
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 60/471,729
; PRIOR FILING DATE: 2003-05-20
; NUMBER OF SEQ ID NOS: 14937
```

```
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10748
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi-sense strand
US-10-847-918-10748

Query Match          59.0%; Score 12.4; DB 21; Length 21;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
      ||||| |||||
Db      20 ATCTGAAGAGTCTG 7

RESULT 8
US-10-847-918-10750/c
; Sequence 10750, Application US/10847918
; Publication No. US20050119210A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Be, Xiaobing
; APPLICANT: Liu, Wei
; APPLICANT: Slonim, Donna
; APPLICANT: Howes, Steve
; TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating Cancers
; FILE REFERENCE: 031896-026000 (AM101264)
; CURRENT APPLICATION NUMBER: US/10/847,918
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 60/471,729
; PRIOR FILING DATE: 2003-05-20
; NUMBER OF SEQ ID NOS: 14937
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10750
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-847-918-10750

Query Match          59.0%; Score 12.4; DB 21; Length 21;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
      ||||| |||||
Db      14 ATCTGAAGAGTCTG 1

RESULT 9
US-10-847-918-10921/c
; Sequence 10921, Application US/10847918
; Publication No. US20050119210A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Be, Xiaobing
; APPLICANT: Liu, Wei
; APPLICANT: Slonim, Donna
; APPLICANT: Howes, Steve
; TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating Cancers
; FILE REFERENCE: 031896-026000 (AM101264)
; CURRENT APPLICATION NUMBER: US/10/847,918
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 60/471,729
; PRIOR FILING DATE: 2003-05-20
; NUMBER OF SEQ ID NOS: 14937
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10921
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-847-918-10921
```

```
Query Match          59.0%; Score 12.4; DB 21; Length 21;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
Db      16 ATCTGAAGACTCTG 3

RESULT 10
US-10-847-918-10922/c
; Sequence 10922, Application US/10847918
; Publication No. US20050119210A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Be, Xiaobing
; APPLICANT: Liu, Wei
; APPLICANT: Slonim, Donna
; APPLICANT: Howes, Steve
; TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating Cancers
; FILE REFERENCE: 031896-026000 (AM101264)
; CURRENT APPLICATION NUMBER: US/10/847,918
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 60/471,729
; PRIOR FILING DATE: 2003-05-20
; NUMBER OF SEQ ID NOS: 14937
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10922
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi-sense strand
US-10-847-918-10922

Query Match          59.0%; Score 12.4; DB 21; Length 21;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
Db      14 ATCTGAAGACTCTG 1

RESULT 11
US-10-847-918-10923
; Sequence 10923, Application US/10847918
; Publication No. US20050119210A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Be, Xiaobing
; APPLICANT: Liu, Wei
; APPLICANT: Slonim, Donna
; APPLICANT: Howes, Steve
; TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating Cancers
; FILE REFERENCE: 031896-026000 (AM101264)
; CURRENT APPLICATION NUMBER: US/10/847,918
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 60/471,729
; PRIOR FILING DATE: 2003-05-20
; NUMBER OF SEQ ID NOS: 14937
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10923
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi-antisense strand
US-10-847-918-10923

Query Match          59.0%; Score 12.4; DB 21; Length 21;
Best Local Similarity 64.3%; Pred. No. 2.8e+04;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
Db      6 AUCUGAGACUCUG 19
```

```
RESULT 12
US-09-848-754A-449/c
; Sequence 449, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
; FILE REFERENCE: Levels of Epidermal Growth Factor Receptors
; FILE REFERENCE: MBHB00-958-I (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 449
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-449

Query Match          58.1%; Score 12.2; DB 10; Length 17;
Best Local Similarity 82.4%; Pred. No. 3.5e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      4 GCGTATCTGAAGAGTCT 20
Db      17 GGGTAICGAAAGAGTCT 1

RESULT 13
US-10-003-919-31/c
; Sequence 31, Application US/10003919
; Publication No. US20030114401A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Susan M. Freier
; TITLE OF INVENTION: ANTISENSE MODULATION OF SHIP-1 EXPRESSION
; FILE REFERENCE: RFS-0256
; CURRENT APPLICATION NUMBER: US/10/003,919
; CURRENT FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 87
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-003-919-31

Query Match          58.1%; Score 12.2; DB 15; Length 20;
Best Local Similarity 82.4%; Pred. No. 3.5e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 CTGGCGTATCTGAAGAG 17
Db      20 CTGGAGTCTCTGCAGAG 4

RESULT 14
US-10-167-034-78/c
; Sequence 78, Application US/10167034
; Publication No. US20030228690A1
; GENERAL INFORMATION:
; APPLICANT: Brenda F. Baker
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF IL-1 RECEPTOR-ASSOCIATED KINASE-1 EXPRESS
; FILE REFERENCE: PFS-0003
; CURRENT APPLICATION NUMBER: US/10/167,034
; CURRENT FILING DATE: 2002-06-10
; NUMBER OF SEQ ID NOS: 142
; SEQ ID NO 78
```

|    |   |              |    |
|----|---|--------------|----|
| QY | 7 | TATCTGAAGAGT | 18 |
|    |   |              |    |
| DH | 1 | TATCTCAACACT | 13 |

```
; TITLE OF INVENTION:  CANCERS
; FILE REFERENCE:  AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER:  US/10/751,736
; CURRENT FILING DATE:  2003-01-06
; PRIOR APPLICATION NUMBER:  US Provisional Application 60/438,000
; PRIOR FILING DATE:  2003-01-06
; NUMBER OF SEQ ID NOS:  54873
; SOFTWARE:  PatentIn version 3.2
; SEQ ID NO 46777
; LENGTH:  21
; TYPE:  DNA
; ORGANISM:  homo sapiens
US-10-751-736-46777

Query Match          57.1%; Score 12; DB 20; Length 21;
Best Local Similarity 75.0%; Pred. No. 4.4e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy      2 TGGCGTATCTGAAGAGTCTG 21
Db      20 TGTCTCTCTGATGAGGCTG 1

RESULT 20
US-10-138-674-5737
; Sequence 5737, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT:  Ribozyme Pharmaceuticals, Inc.
; APPLICANT:  Pavco, Pam
; APPLICANT:  McSwiggen, Jim
; APPLICANT:  Stinchcomb, Dan
; APPLICANT:  Escobedo, Jaime
; TITLE OF INVENTION:  Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION:  Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE:  MEHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER:  US/10/138,674
; CURRENT FILING DATE:  2002-05-03
; NUMBER OF SEQ ID NOS:  20822
; SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 5737
; LENGTH:  16
; TYPE:  RNA
; ORGANISM:  Homo sapiens
US-10-138-674-5737

Query Match          56.2%; Score 11.8; DB 18; Length 16;
Best Local Similarity 73.3%; Pred. No. 5.5e+04;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      3 GCGGTATCTGAAGAG 17
Db      2 GACGUAACUGAAGAG 16

RESULT 21
US-10-287-949A-5737
; Sequence 5737, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT:  Ribozyme Pharmaceuticals, Inc.
; APPLICANT:  Pavco, Pam
; APPLICANT:  McSwiggen, Jim
; APPLICANT:  Stinchcomb, Dan
; APPLICANT:  Escobedo, Jaime
; TITLE OF INVENTION:  Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION:  Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE:  MEHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER:  US/10/287,949A
; CURRENT FILING DATE:  2003-04-11
; NUMBER OF SEQ ID NOS:  20822
; SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 5737
```

```
; LENGTH:  16
; TYPE:  RNA
; ORGANISM:  Homo sapiens
US-10-287-949A-5737

Query Match          56.2%; Score 11.8; DB 19; Length 16;
Best Local Similarity 73.3%; Pred. No. 5.5e+04;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      3 GCGGTATCTGAAGAG 17
Db      2 GACGUAACUGAAGAG 16

RESULT 22
US-09-848-754A-447/c
; Sequence 447, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT:  Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION:  Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
; TITLE OF INVENTION:  Levels of Epidermal Growth Factor Receptors
; FILE REFERENCE:  MEHB00-958-1 (400/018)
; CURRENT APPLICATION NUMBER:  US/09/848,754A
; CURRENT FILING DATE:  2001-05-03
; NUMBER OF SEQ ID NOS:  9645
; SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 447
; LENGTH:  17
; TYPE:  RNA
; ORGANISM:  Homo sapiens
US-09-848-754A-447

Query Match          56.2%; Score 11.8; DB 10; Length 17;
Best Local Similarity 86.7%; Pred. No. 5.5e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      7 TATCTGAAGAGTCTG 21
Db      17 TATCGAAAGAGTCTG 3

RESULT 23
US-09-780-164-577/c
; Sequence 577, Application US/09780164
; Publication No. US20030092646A1
; GENERAL INFORMATION:
; APPLICANT:  Ribozyme Pharmaceuticals, Inc.
; APPLICANT:  Blatt, Larry
; APPLICANT:  McSwiggen, Jim
; TITLE OF INVENTION:  Method and Reagent for the Inhibition of CD20
; FILE REFERENCE:  400/010
; CURRENT APPLICATION NUMBER:  US/09/780,164
; CURRENT FILING DATE:  2001-02-09
; PRIOR APPLICATION NUMBER:  60/185,516
; PRIOR FILING DATE:  2000-02-28
; NUMBER OF SEQ ID NOS:  2603
; SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 577
; LENGTH:  17
; TYPE:  RNA
; ORGANISM:  Homo sapiens
US-09-780-164-577

Query Match          56.2%; Score 11.8; DB 10; Length 17;
Best Local Similarity 86.7%; Pred. No. 5.5e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      4 GCGTATCTGAAGACT 18
Db      16 GCGTATGTGCAGACT 2
```

## RESULT 24

US-10-138-674-4438  
; Sequence 4438, Application US/10138674  
; Publication No. US20040077565A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MBHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/138,674  
; CURRENT FILING DATE: 2002-05-03  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4438  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-138-674-4438

Query Match 56.2%; Score 11.8; DB 18; Length 17;  
Best Local Similarity 73.3%; Pred. No. 5.5e+04;  
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAGAG 17  
| | | | | | | | | | | | | | | | | | | |  
Db 1 GACGUACUGAAGAG 15

## RESULT 25

US-10-138-674-7389  
; Sequence 7389, Application US/10138674  
; Publication No. US20040077565A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MBHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/138,674  
; CURRENT FILING DATE: 2002-05-03  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 7389  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-138-674-7389

Query Match 56.2%; Score 11.8; DB 18; Length 17;  
Best Local Similarity 73.3%; Pred. No. 5.5e+04;  
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAGAG 17  
| | | | | | | | | | | | | | | | | | | |  
Db 3 GACGUACUGAAGAG 17

## RESULT 26

US-10-287-949A-4438  
; Sequence 4438, Application US/10287949A  
; Publication No. US20040102389A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan

; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MBHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/287,949A  
; CURRENT FILING DATE: 2003-04-11  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4438  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-287-949A-4438

Query Match 56.2%; Score 11.8; DB 19; Length 17;  
Best Local Similarity 73.3%; Pred. No. 5.5e+04;  
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAGAG 17  
| | | | | | | | | | | | | | | | | | | |  
Db 1 GACGUACUGAAGAG 15

## RESULT 27

US-10-287-949A-7389  
; Sequence 7389, Application US/10287949A  
; Publication No. US20040102389A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MBHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/287,949A  
; CURRENT FILING DATE: 2003-04-11  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 7389  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-287-949A-7389

Query Match 56.2%; Score 11.8; DB 19; Length 17;  
Best Local Similarity 73.3%; Pred. No. 5.5e+04;  
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAGAG 17  
| | | | | | | | | | | | | | | | | | | |  
Db 3 GACGUACUGAAGAG 17

## RESULT 28

US-10-712-633-339  
; Sequence 339, Application US/10712633  
; Publication No. US20040220128A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pamela  
; APPLICANT: Sandberg, Jennifer  
; APPLICANT: Gordon, Gilad  
; APPLICANT: McSwiggen, James  
; APPLICANT: Stinchcomb, Dan  
; TITLE OF INVENTION: NUCLEIC ACID BASED MODULATION OF VASCULAR ENDOTHELIAL GROWTH FACT  
; FILE REFERENCE: MBHB02-325PCT (400/047)  
; CURRENT APPLICATION NUMBER: US/10/712,633  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: US 60/005,974  
; PRIOR FILING DATE: 1995-10-26



RESULT 33  
US-10-766-185-87  
; Sequence 87, Application US/10766185  
; Publication No. US2004015265A1  
; GENERAL INFORMATION:  
; APPLICANT: Yoon, Heejeong  
; APPLICANT: Ahn, Chang Ho  
; APPLICANT: Lee, Young Bok  
; APPLICANT: Mao, Lingjun  
; APPLICANT: Jiang, Xiaoming  
; TITLE OF INVENTION: Antisense Oligonucleotides that inhibit expression of HIF-1  
; FILE REFERENCE: REX 7034  
; CURRENT APPLICATION NUMBER: US/10/766,185  
; CURRENT FILING DATE: 2004-01-28  
; NUMBER OF SEQ ID NOS: 130  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 87  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: antisense oligonucleotide  
US-10-766-185-87

Query Match 56.2%; Score 11.8; DB 19; Length 20;  
Best Local Similarity 86.7%; Pred. No. 5.6e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CGTATCTGAAGAGTC 19  
| | | | | | | | | | | | | | | | | | | | | |  
Db 3 CATATCTGAAGATTC 17

RESULT 34  
US-10-719-370A-166  
; Sequence 166, Application US/10719370A  
; Publication No. US2004023039A1  
; GENERAL INFORMATION:  
; APPLICANT: Ward, Donna T.  
; APPLICANT: Dobie, Kenneth W.  
; APPLICANT: Marcussen, Eric G.  
; APPLICANT: Freier, Susan M.  
; TITLE OF INVENTION: MODULATION OF HIF1A AND HIF2a EXPRESSION  
; FILE REFERENCE: ISPT-1010  
; CURRENT APPLICATION NUMBER: US/10/719,370A  
; CURRENT FILING DATE: 2003-11-21  
; PRIOR FILING DATE: 2003-11-21  
; PRIOR FILING DATE: 2002-11-23  
; NUMBER OF SEQ ID NOS: 458  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 166  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Construct  
US-10-719-370A-166

Query Match 56.2%; Score 11.8; DB 20; Length 20;  
Best Local Similarity 86.7%; Pred. No. 5.6e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CGTATCTGAAGAGTC 19  
| | | | | | | | | | | | | | | | | | | | | |  
Db 3 CATATCTGAAGATTC 17

RESULT 35  
US-10-198-235-118/c  
; Sequence 118, Application US/10198235  
; Publication No. US20030190634A1

GENERAL INFORMATION:  
; APPLICANT: Barany, Francis  
; APPLICANT: Liu, Jianzhao  
; APPLICANT: Kirk, Brian W.  
; APPLICANT: Zirvi, Monib  
; APPLICANT: Gerry, No. US20030190634A1man P.  
; APPLICANT: Paty, Philip B.  
; TITLE OF INVENTION: ACCELERATING IDENTIFICATION OF SINGLE NUCLEOTIDE  
; TITLE OF INVENTION: POLYMORPHISMS AND ALIGNMENT OF CLONES IN GENOMIC  
; TITLE OF INVENTION: SEQUENCING  
; FILE REFERENCE: 19603/2621  
; CURRENT APPLICATION NUMBER: US/10/198,235  
; CURRENT FILING DATE: 2002-07-17  
; PRIOR APPLICATION NUMBER: US/09/478,189  
; PRIOR FILING DATE: 2000-01-05  
; PRIOR APPLICATION NUMBER: 60/114,881  
; PRIOR FILING DATE: 1999-01-06  
; NUMBER OF SEQ ID NOS: 181  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 118  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: probe/primer  
US-10-198-235-118

Query Match 56.2%; Score 11.8; DB 16; Length 21;  
Best Local Similarity 86.7%; Pred. No. 5.6e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTGGCGTATCTGAAG 15  
| | | | | | | | | | | | | | | | | | | | | |  
Db 17 CTGGTGTGTCTGAAG 3

RESULT 36  
US-10-643-775-862/c  
; Sequence 862, Application US/10643775  
; Publication No. US20050026156A1  
; GENERAL INFORMATION:  
; APPLICANT: Lie, Cysteine  
; APPLICANT: Slettan, Audun  
; APPLICANT: Hoyum, Morten  
; APPLICANT: Lingaas, Frode  
; TITLE OF INVENTION: Verification of Food Origin Based on  
; TITLE OF INVENTION: Nucleic Acid Pattern Recognition  
; FILE REFERENCE: 66849-019  
; CURRENT APPLICATION NUMBER: US/10/643,775  
; CURRENT FILING DATE: 2003-08-18  
; PRIOR APPLICATION NUMBER: US 60/404,200  
; PRIOR FILING DATE: 2002-08-16  
; NUMBER OF SEQ ID NOS: 1377  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 862  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Orsochromis niloticus  
US-10-643-775-862

Query Match 56.2%; Score 11.8; DB 21; Length 21;  
Best Local Similarity 86.7%; Pred. No. 5.6e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAGAG 17  
| | | | | | | | | | | | | | | | | | | | | |  
Db 15 GCGGTATTTGGAGAG 1

RESULT 37  
US-09-752-983-129  
; Sequence 129, Application US/09752983  
; Patent No. US20010016575A1

GENERAL INFORMATION:  
APPLICANT: Loren J. Miraglia, Pamela Nero, Mark J.  
APPLICANT: Graham, Brett P. Monia  
TITLE OF INVENTION: ANTISENSE MODULATION OF HUMAN MDM2  
TITLE OF INVENTION: EXPRESSION  
NUMBER OF SEQUENCES: 271  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Law Offices of Jane Massey Licata  
STREET: 66 East Main Street  
CITY: Marlton  
STATE: NJ  
COUNTRY: U.S.A.  
ZIP: 08053  
COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
COMPUTER: IBM PC  
OPERATING SYSTEM: WINDOWS 95  
SOFTWARE: WORDPERFECT 6.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/752,983  
FILING DATE: 02-Jan-2001  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/280,805  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Licata, Jane Massey  
REGISTRATION NUMBER: 32,257  
REFERENCE/DOCKET NUMBER: ISPH-0346  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 609-810-1515  
TELEFAX: 609-810-1454  
INFORMATION FOR SEQ ID NO: 129:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: Nucleic Acid  
STRANDEDNESS: Single  
TOPOLOGY: Linear  
ANTI-SENSE: Yes  
US-09-752-983-129

Query Match 55.2%; Score 11.6; DB 9; Length 20;  
Best Local Similarity 77.8%; Pred. No. 7e+04; Mismatches 0; Indels 4; Gaps 0;  
Matches 14; Conservative 0

QY 2 TGGCGTATCTGAGACTC 19  
||||| ||||| ||||| |||||  
Db 1 TGGCGTCCCTGTAGATTC 18

RESULT 38  
US-09-888-049-15/c  
Sequence 15, Application US/09888049  
Patent No. US20020137215A1  
GENERAL INFORMATION:  
APPLICANT: Francis, Kevin P.  
APPLICANT: Purchio, Anthony F.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR USE THEREOF IN MODIFYING  
TITLE OF INVENTION: THE GENOMES OF MICROORGANISMS  
FILE REFERENCE: PXE-013 USP / 9400-0013  
CURRENT APPLICATION NUMBER: US/09/888,049  
CURRENT FILING DATE: 2001-06-21  
PRIOR APPLICATION NUMBER: 60/216,257  
PRIOR FILING DATE: 2000-07-06  
PRIOR APPLICATION NUMBER: 60/274,105  
PRIOR FILING DATE: 2001-03-07  
NUMBER OF SEQ ID NOS: 20  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 15  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Primer  
OTHER INFORMATION: LuxA-Rev  
US-09-888-049-15

Query Match 55.2%; Score 11.6; DB 9; Length 20;  
Best Local Similarity 77.8%; Pred. No. 7e+04; Mismatches 0; Indels 4; Gaps 0;  
Matches 14; Conservative 0

QY 4 GCGTATCTGAGAGTCTG 21  
||||| ||||| ||||| |||||  
Db 19 GCATCTCTGAGGAGTGTG 2

RESULT 39  
US-10-094-146-4/c  
Sequence 4, Application US/10094146  
Publication No. US20020192755A1  
GENERAL INFORMATION:  
APPLICANT: FRANCIS, Kevin P.  
APPLICANT: DOYLE, Timothy C.  
APPLICANT: NAWOTKA, Kevin A.  
TITLE OF INVENTION: METHODS OF SCREENING FOR INTRODUCTION OF DNA INTO A  
FILE REFERENCE: 9400-0015 / PXE-015.US  
CURRENT APPLICATION NUMBER: US/10/094,146  
CURRENT FILING DATE: 2002-06-10  
PRIOR APPLICATION NUMBER: 60/274,094  
PRIOR FILING DATE: 2001-03-07  
PRIOR APPLICATION NUMBER: 60/292,828  
PRIOR FILING DATE: 2001-05-22  
NUMBER OF SEQ ID NOS: 35  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: primer LuxA-Rev  
US-10-094-146-4

Query Match 55.2%; Score 11.6; DB 13; Length 20;  
Best Local Similarity 77.8%; Pred. No. 7e+04; Mismatches 0; Indels 4; Gaps 0;  
Matches 14; Conservative 0

QY 4 GCGTATCTGAGAGTCTG 21  
||||| ||||| ||||| |||||  
Db 19 GCATCTCTGAGGAGTGTG 2

RESULT 40  
US-10-093-365-20/c  
Sequence 20, Application US/10093365  
Publication No. US20030099962A1  
GENERAL INFORMATION:  
APPLICANT: Scherthaner, Johann  
APPLICANT: Fische, Caroline  
APPLICANT: Robert, Laurian  
TITLE OF INVENTION: Methods to Isolate Gene Coding and Flanking DNA  
FILE REFERENCE: 0811.1200001  
CURRENT APPLICATION NUMBER: US/10/093,365  
CURRENT FILING DATE: 2002-03-08  
PRIOR APPLICATION NUMBER: US 60/274,239  
PRIOR FILING DATE: 2001-03-09  
NUMBER OF SEQ ID NOS: 47  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 20  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial  
FEATURE:  
OTHER INFORMATION: Artificial DNA Sequence  
US-10-093-365-20



Query Match 55.2%; Score 11.6; DB 14; Length 20;  
Best Local Similarity 77.8%; Pred. No. 7e+04;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 3 GCGTATCTGAGAGTCT 20  
Db 19 GCGTTTATGAGACGCT 2

Search completed: August 12, 2005, 11:11:23  
Job time : 373 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 09:55:08 ; Search time 1806 Seconds  
(without alignments)

442.608 Million cell updates/sec

Title: US-09-743-825-8

Perfect score: 21

Sequence: 1 ctggcgatctgaagagtctg 21

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 15386

Minimum DB seq length: 0

Maximum DB seq length: 21

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_est3:\*

4: gb\_est4:\*

5: gb\_est5:\*

6: gb\_est6:\*

7: gb\_est7:\*

8: gb\_est8:\*

9: gb\_est9:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------|
| 1          | 10.4  | 49.5        | 20     | 8  | AZ784664    |
| 2          | 10.2  | 48.6        | 15     | 9  | AJ592729    |
| 3          | 10    | 47.6        | 21     | 6  | CA851013    |
| 4          | 9.8   | 46.7        | 19     | 8  | AZ495849    |
| 5          | 9.8   | 46.7        | 19     | 8  | AZ875769    |
| 6          | 9.6   | 45.7        | 20     | 8  | AZ489135    |
| 7          | 9.4   | 44.8        | 17     | 9  | CL681189    |
| 8          | 9.2   | 43.8        | 20     | 8  | AZ308384    |
| 9          | 9.2   | 43.8        | 20     | 8  | AZ316351    |
| 10         | 9.2   | 43.8        | 20     | 8  | AZ328275    |
| 11         | 9     | 42.9        | 10     | 9  | AJ587417    |
| 12         | 9     | 42.9        | 16     | 1  | AJ684587    |
| 13         | 9     | 42.9        | 20     | 8  | AZ625776    |
| 14         | 9     | 42.9        | 21     | 4  | BG924548    |
| 15         | 8.8   | 41.9        | 17     | 9  | AJ587168    |
| 16         | 8.8   | 41.9        | 20     | 6  | C00979      |
| 17         | 8.8   | 41.9        | 20     | 7  | CF325351    |
| 18         | 8.8   | 41.9        | 20     | 7  | D20709      |
| 19         | 8.6   | 41.0        | 19     | 1  | AJ677161    |
| 20         | 8.6   | 41.0        | 19     | 7  | C0778852    |
| 21         | 8.6   | 41.0        | 20     | 8  | AZ480596    |
| 22         | 8.6   | 41.0        | 20     | 8  | AZ658035    |
| 23         | 8.6   | 41.0        | 21     | 9  | AG194535    |
| 24         | 8.4   | 40.0        | 19     | 8  | AZ623493    |

|    |     |      |    |   |          |
|----|-----|------|----|---|----------|
| 25 | 8.4 | 40.0 | 20 | 8 | AZ818271 |
| 26 | 8.4 | 40.0 | 20 | 9 | AG199044 |
| 27 | 8.4 | 40.0 | 20 | 9 | AG203835 |
| 28 | 8.4 | 40.0 | 21 | 8 | AZ787920 |
| 29 | 8.2 | 39.0 | 13 | 9 | CL694050 |
| 30 | 8.2 | 39.0 | 17 | 9 | CL423467 |
| 31 | 8.2 | 39.0 | 18 | 1 | AJ662026 |
| 32 | 8.2 | 39.0 | 18 | 9 | AJ588865 |
| 33 | 8.2 | 39.0 | 19 | 8 | AZ358656 |
| 34 | 8.2 | 39.0 | 20 | 5 | BQ595520 |
| 35 | 8.2 | 39.0 | 20 | 8 | AZ320114 |
| 36 | 8.2 | 39.0 | 20 | 8 | AZ336082 |
| 37 | 8.2 | 39.0 | 20 | 8 | AZ772787 |
| 38 | 8.2 | 39.0 | 20 | 8 | AZ807038 |
| 39 | 8.2 | 39.0 | 21 | 9 | CL436802 |
| 40 | 8   | 38.1 | 11 | 4 | BG927412 |
| 41 | 8   | 38.1 | 14 | 4 | BG924475 |
| 42 | 8   | 38.1 | 15 | 7 | D11800   |
| 43 | 8   | 38.1 | 15 | 7 | D11801   |
| 44 | 8   | 38.1 | 15 | 7 | D11803   |
| 45 | 8   | 38.1 | 15 | 7 | D11818   |
| 46 | 8   | 38.1 | 16 | 4 | BG928185 |
| 47 | 8   | 38.1 | 17 | 4 | BG929060 |
| 48 | 8   | 38.1 | 18 | 4 | BG900971 |
| 49 | 8   | 38.1 | 18 | 4 | BG924473 |
| 50 | 8   | 38.1 | 19 | 4 | BG928126 |
| 51 | 8   | 38.1 | 20 | 6 | CD532195 |
| 52 | 8   | 38.1 | 20 | 7 | CO779101 |
| 53 | 8   | 38.1 | 20 | 8 | AZ316351 |
| 54 | 8   | 38.1 | 20 | 8 | AZ619410 |
| 55 | 8   | 38.1 | 20 | 8 | AZ649987 |
| 56 | 8   | 38.1 | 20 | 8 | AZ817897 |
| 57 | 8   | 38.1 | 20 | 8 | AZ835078 |
| 58 | 8   | 38.1 | 21 | 7 | CO792195 |
| 59 | 8   | 38.1 | 21 | 8 | AZ511284 |
| 60 | 8   | 38.1 | 21 | 8 | AZ607204 |
| 61 | 8   | 38.1 | 21 | 8 | AZ623540 |
| 62 | 8   | 38.1 | 21 | 8 | AZ875020 |
| 63 | 8   | 38.1 | 21 | 9 | AG203054 |
| 64 | 7.8 | 37.1 | 15 | 1 | AJ649143 |
| 65 | 7.8 | 37.1 | 18 | 9 | AJ587324 |
| 66 | 7.8 | 37.1 | 18 | 9 | AJ592301 |
| 67 | 7.8 | 37.1 | 19 | 7 | CF317235 |
| 68 | 7.8 | 37.1 | 19 | 7 | CO792214 |
| 69 | 7.8 | 37.1 | 19 | 8 | AZ490612 |
| 70 | 7.8 | 37.1 | 19 | 8 | AZ508355 |
| 71 | 7.8 | 37.1 | 19 | 8 | AZ795136 |
| 72 | 7.8 | 37.1 | 19 | 8 | AZ834391 |
| 73 | 7.8 | 37.1 | 19 | 9 | CL668704 |
| 74 | 7.8 | 37.1 | 20 | 5 | BQ593485 |
| 75 | 7.8 | 37.1 | 20 | 8 | AZ475341 |
| 76 | 7.8 | 37.1 | 20 | 8 | AZ610524 |
| 77 | 7.8 | 37.1 | 20 | 8 | AZ832001 |
| 78 | 7.8 | 37.1 | 20 | 9 | AG190598 |
| 79 | 7.8 | 37.1 | 20 | 9 | AJ587844 |
| 80 | 7.8 | 37.1 | 21 | 1 | AU256271 |
| 81 | 7.8 | 37.1 | 21 | 8 | AZ331625 |
| 82 | 7.8 | 37.1 | 21 | 8 | AZ346766 |
| 83 | 7.8 | 37.1 | 21 | 8 | AZ510119 |
| 84 | 7.8 | 37.1 | 21 | 8 | AZ628010 |
| 85 | 7.8 | 37.1 | 21 | 8 | AZ819244 |
| 86 | 7.8 | 37.1 | 21 | 8 | AZ820567 |
| 87 | 7.8 | 37.1 | 21 | 8 | AZ875300 |
| 88 | 7.6 | 36.2 | 18 | 9 | AJ598221 |
| 89 | 7.6 | 36.2 | 19 | 4 | BG927923 |
| 90 | 7.6 | 36.2 | 19 | 6 | C01992   |
| 91 | 7.6 | 36.2 | 19 | 9 | CL678657 |
| 92 | 7.6 | 36.2 | 20 | 1 | AB088509 |
| 93 | 7.6 | 36.2 | 20 | 7 | CO794844 |
| 94 | 7.6 | 36.2 | 20 | 8 | AZ646291 |
| 95 | 7.6 | 36.2 | 20 | 8 | AZ774829 |
| 96 | 7.6 | 36.2 | 20 | 9 | AJ587945 |
| 97 | 7.6 | 36.2 | 21 | 1 | AU257572 |

|          |            |
|----------|------------|
| AZ818271 | 2M0088M08  |
| AG199044 | Pan trogl  |
| AG203835 | Pan trogl  |
| AZ787920 | 2M0034M09  |
| CL694050 | PR10163a   |
| CL423467 | 01S0557-0  |
| AJ662026 | AJ662026   |
| AJ588865 | Arabidops  |
| AZ358656 | 1M0101K12  |
| BQ595520 | E012693-0  |
| AZ320114 | 1M0040D05  |
| AZ336082 | 1M0233A10  |
| AZ772787 | 1M0583M24  |
| AZ807038 | 2M0069C06  |
| CL436802 | PST3869-N  |
| BG927412 | HNC1-1-G1  |
| BG924475 | HNC27-1-D  |
| D11800   | HUMH01G12  |
| D11801   | HUMH01H01  |
| D11803   | HUMH01H05  |
| D11818   | HUMH02B04  |
| BG928185 | HNC65-1-D  |
| BG929060 | HNC11-1-G  |
| BG900971 | HNC52-1-C  |
| BG924473 | HNC27-1-D  |
| BG928126 | HNC65-1-B  |
| CD532195 | 26A8 Arab  |
| CO779101 | BL005C F0  |
| AZ316351 | 1M0034A11  |
| AZ619410 | 1M0451F11  |
| AZ649987 | 1M0519J21  |
| AZ817897 | 2M0087D09  |
| AZ835078 | 2M0129E07  |
| CO792195 | NT014B H0  |
| AZ511284 | 1M0356G16  |
| AZ607204 | 1M0429H03  |
| AZ623540 | 1M0461G23  |
| AZ875020 | 2M0189B24  |
| AG203054 | Pan trogl  |
| AJ649143 | AJ649143   |
| AJ587324 | Arabidops  |
| AJ592301 | Arabidops  |
| CF317235 | HD--06-N1  |
| CO792214 | NT014C A1  |
| AZ490612 | 1M0323I11  |
| AZ508355 | 1M0350013  |
| AZ795136 | 2M0049A16  |
| AZ834391 | 2M0117N04  |
| CL668704 | PR10158b   |
| BQ593485 | S015529-0  |
| AZ475341 | 1M0293H11  |
| AZ610524 | 1M0435B21  |
| AZ832001 | 2M0112001  |
| AG190598 | Pan trogl  |
| AJ587844 | Arabidops  |
| AU256271 | AU256271   |
| AZ331625 | 1M0059M07  |
| AZ346766 | 1M0082H08  |
| AZ510119 | 1M0354I23  |
| AZ628010 | 1M0476K09  |
| AZ819244 | 2M0089F14  |
| AZ820567 | 2M0189D22  |
| AZ875300 | 2M0092B19  |
| AJ598221 | Arabidops  |
| BG927923 | HNC45-1-E  |
| C01992   | HUMG000401 |
| CL678657 | PR10123C-  |
| AB088509 | AB088509   |
| CO794844 | NT144D B0  |
| AZ646291 | 1M0512D07  |
| AZ774829 | 2M0004D10  |
| AJ587945 | Arabidops  |
| AU257572 | AU257572   |

Best Local Similarity 91.7%; Pred. No. 1.8e+06;  
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 10 CTGAAGAGCTCTG 21  
|||||  
Db 1 CTGAAGGCTCTG 12

RESULT 2  
AJ592729/c  
LOCUS  
DEFINITION  
Arabidopsis thaliana T-DNA flanking sequence, right border, clone  
631B09, genomic survey sequence.  
ACCESSION  
AJ592729.1 GI:37942353  
VERSION  
GSS; right border; T-DNA flanking sequence.  
KEYWORDS  
Arabidopsis thaliana (thale cress)  
SOURCE  
Arabidopsis thaliana  
ORGANISM  
Arabidopsis thaliana  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.  
REFERENCE  
1  
AUTHORS  
Brunaud, V., Balzergue, S., Dubreucq, B., Aubourg, S., Samson, F.,  
Chauvin, S., Bechtold, N., Cruaud, C., DeRose, R., Pelletier, G.,  
Lepiniec, L., Caboche, M. and Lecharny, A.  
T-DNA integration into the Arabidopsis genome depends on sequences  
of pre-insertion sites  
EMBO Rep. 3 (12), 1152-1157 (2002)  
MEDLINE  
22363535  
PUBMED  
12446565  
REFERENCE  
2 (bases 1 to 15)  
AUTHORS  
Balzergue, S.  
TITLE  
Direct Submission  
JOURNAL  
Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue  
Gaston Cremieux, 91057 Evry cedex, FRANCE  
COMMENT  
PCR was performed on DNA from transformants of Arabidopsis thaliana  
plants from INRA (Versailles). The DNA fragment(s) resulting from  
the PCR were directly sequenced from the left or the right border  
to determine the genomic sequence flanking the insertion. T-DNA  
derived sequences were removed. Information to order the  
corresponding mutant line and a link to a database providing a  
graphical display of the insertion site are available at  
http://dbgap.versailles.inra.fr/publiclines/. This sequence has  
been generated in the framework of the French plant genomics  
program 'Genoplante' (http://www.genoplante.com and  
http://genoplante-info.inra.fr/).

FEATURES  
source  
1..15  
/organism="Arabidopsis thaliana"  
/mol\_type="genomic DNA"  
/cultivar="Wassillewkija"  
/db\_xref="taxon:3702"  
/clone="631B09"  
misc\_feature  
1..15  
/note="T-DNA flanking sequence  
right border"

ORIGIN  
Query Match 48.6%; Score 10.2; DB 9; Length 15;  
Best Local Similarity 80.0%; Pred. No. 2.2e+06;  
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TGGCGTATCTGAAGA 16  
|||||  
Db 15 TGGAGAACTCTGGAGA 1

RESULT 3  
CA851013/c  
LOCUS  
DEFINITION  
21 bp mRNA linear EST 01-AUG-2003  
D09B11 C11\_04.ab1 cDNA Peking library 2, 4 day SCN3 Glycine max  
cDNA clone D09B11 5', mRNA sequence.

c 98 7.6 36.2 21 7 CO788185  
99 7.6 36.2 21 8 AZ393342  
100 7.6 36.2 21 8 AZ441394

## ALIGNMENTS

RESULT 1  
AZ784664  
LOCUS  
DEFINITION  
2M0027110R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC2M0027110 R, genomic survey sequence.  
ACCESSION  
AZ784664.1 GI:12920631  
VERSION  
GSS.  
SOURCE  
Mus musculus (house mouse)  
ORGANISM  
Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 20)  
REFERENCE  
1  
AUTHORS  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von  
Niederhausern, A. and Wright, D. Weiss, R.  
TITLE  
Mouse whole genome scaffolding with paired end reads from 10kb  
Plasmid inserts  
JOURNAL  
Unpublished (2000)  
COMMENT  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0027 row: 1 column: 10  
Seq primer: CACACAGAAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 20.

FEATURES  
source  
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/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0027110"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/notes="Vector: FWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydronamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptor DNA was purified and size-selected for a 9.5 to  
10.5 Kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (G14732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adaptor mouse DNA was annealed to  
adaptor vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

ORIGIN  
Query Match 49.5%; Score 10.4; DB 8; Length 20;

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ACCESSION      CA851013
VERSION         CA851013.1  GI:33387806
KEYWORDS        EST
SOURCE          Glycine max (soybean)
ORGANISM        Glycine max
                Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
                Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
                rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
                Glycine
REFERENCE       1 (bases 1 to 21)
AUTHORS         Alkharouf, N.W., Khan, R. and Matthews, B.F.
TITLE           Analysis of expressed sequence tags from roots of resistant soybean
                infected by the soybean cyst nematode
JOURNAL         Unpublished (2002)
COMMENT         Contact: Alkharouf, N.W.
                Soybean Genomics and Improvement Laboratory (SGIL)
                US Department of Agriculture (USDA), ARS, PSI
                Bldg.006, Rm 118, 10300 Baltimore Ave., Beltsville, MD 20705-2350,
                USA
                Tel: 301 504 5750
                Fax: 301 504 5728
                Email: alkharouf@ba.ars.usda.gov.
FEATURES       1. .21
                source
                /organism="Glycine max"
                /mol_type="mRNA"
                /cultivar="Peking"
                /db_xref="taxon:3847"
                /clone="D09B11"
                /tissue_type="Roots"
                /dev_stage="Seedlings"
                /clone_lib="cDNA Peking library 2, 4 day SCN3"
                /notes="Vector: pBluescript SK-; cDNA clones from mRNA
                extracted from Peking roots 2 and 4 days past invasion."
ORIGIN
Query Match      47.6%; Score 10; DB 6; Length 21;
Best Local Similarity 72.2%; Pred. No. 2.9e+06;
Matches 13; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy      4  GCGTATCTGAGAGTCTG 21
        |||||
Db      20 GCGTATGTTATATTG 3

RESULT 4
AZ495849/c
LOCUS
DEFINITION      AZ495849
                19 bp DNA linear GSS 05-OCT-2000
                1M0331N22R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
                clone UUGC1M0331N22 R, genomic survey sequence.
ACCESSION      AZ495849
VERSION         AZ495849.1  GI:10671571
KEYWORDS        GSS.
SOURCE          Mus musculus (house mouse)
ORGANISM        Mus musculus
                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE       1 (bases 1 to 19)
AUTHORS         Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
                Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
                Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
                Niederhausern, A. and Wright, D., Weiss, R.
TITLE           Mouse whole genome scaffolding with paired end reads from 10kb
                plasmid inserts
JOURNAL         Unpublished (2000)
COMMENT         Contact: Robert B. Weiss
                University of Utah Genome Center
                University of Utah
                Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                84112, USA
                Tel: 801 585 5606
                Fax: 801 585 7177
                Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
Plate: 0331 row: N column: 22
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1. .19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0331N22"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gil4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
ORIGIN
Query Match      46.7%; Score 9.8; DB 8; Length 19;
Best Local Similarity 84.6%; Pred. No. 3.6e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      9  TCTGAGAGTCTG 21
        |||||
Db      15 TCTGCAGAGCCTG 3

RESULT 5
AZ875769
LOCUS
DEFINITION      AZ875769
                19 bp DNA linear GSS 21-FEB-2001
                2M0190A02R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
                clone UUGC2M0190A02 R, genomic survey sequence.
ACCESSION      AZ875769
VERSION         AZ875769.1  GI:13086107
KEYWORDS        GSS.
SOURCE          Mus musculus (house mouse)
ORGANISM        Mus musculus
                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE       1 (bases 1 to 19)
AUTHORS         Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
                Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
                Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
                Niederhausern, A. and Wright, D., Weiss, R.
TITLE           Mouse whole genome scaffolding with paired end reads from 10kb
                plasmid inserts
JOURNAL         Unpublished (2000)
COMMENT         Contact: Robert B. Weiss
                University of Utah Genome Center
                University of Utah
                Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                84112, USA
                Tel: 801 585 5606
                Fax: 801 585 7177
                Email: ddunn@genetics.utah.edu

```

Insert Length: 10000 Std Error: 0.00  
 Plate: 0190 row: A column: 02  
 Seq primer: CACACAGGAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 19.  
 Location/Qualifiers

## FEATURES

source

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1. .19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0190A02"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (GI|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

## ORIGIN

Query Match 46.7%; Score 9.8; DB 8; Length 19;  
 Best Local Similarity 84.6%; Pred. No. 3.6e+06;  
 Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTGGCGTATCTGA 13

|||||

Db 7 CTGGAGTGTCTGA 19

## RESULT 6

AZ489135

LOCUS

DEFINITION 1M0319H15R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0319H15 R, genomic survey sequence.

ACCESSION AZ489135

VERSION AZ489135.1 GI:10658589

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

## ORGANISM

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 20)

AUTHORS

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL

Unpublished (2000)

COMMENT

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00  
 Plate: 0319 row: H column: 15  
 Seq primer: CACACAGGAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 20.  
 Location/Qualifiers

## FEATURES

source

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1. .20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0319H15"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (GI|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

## ORIGIN

Query Match 45.7%; Score 9.6; DB 8; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 4.6e+06;  
 Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 TGGCGTATCTGAAGAG 17

|||||

Db 3 TGGCTTTCTGAGGG 18

## RESULT 7

CL681189

LOCUS

DEFINITION

CL681189 PRI0130b\_G06\_2 - PRI0130b.BR (17) Mixed stage fosmid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.

ACCESSION CL681189

VERSION CL681189.1 GI:50188197

KEYWORDS GSS.

SOURCE

ORGANISM

Pristionchus pacificus  
 Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida; Pristionchidae; Pristionchus.

REFERENCE 1 (bases 1 to 17)

AUTHORS

Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.

TITLE AppADB: an AcedB database for the nematode satellite organism

JOURNAL Pristionchus pacificus

COMMENT Nucleic Acids Res. 32 (1), D421-D422 (2004)

Contact: Sommer RJ

Evolutionary Biology

Max-Planck-Institute for Developmental Biology

Spemannstr. 37-39, Tuebingen D-72076, Germany

Tel: 00497071601371

Fax: 00497071601498

Email: ralf.sommer@tuebingen.mpg.de

This library was generated at Caltech,

sequenced at Vancouver, Canada.

Seq primer: T7

Class: fosmid ends.  
 Location/Qualifiers  
 1. .17  
 /organism="Pristionchus pacificus"  
 /mol\_type="genomic DNA"  
 /strain="CaliforniA"  
 /db\_xref="taxon:54126"  
 /clone\_lib="Mixed stage fosmid library of P. pacificus var. CaliforniA"  
 /note="Vector: pEpifos-5 Fosmid vector"

## ORIGIN

Query Match 44.8%; Score 9.4; DB 9; Length 17;  
 Best Local Similarity 90.9%; Pred. No. 5.7e+06;  
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 6 GTATCTGAAGA 16  
 |||||  
 Db 6 GTATCTGCAGA 16

RESULT 8  
 AZ308384  
 LOCUS 20 bp DNA linear GSS 29-SEP-2000  
 DEFINITION 1M0011K17F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0011K17 F, genomic survey sequence.

ACCESSION AZ308384.1 GI:10348326  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 Mus musculus (house mouse)

REFERENCE  
 AUTHORS  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL  
 COMMENT  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 .Std Error: 0.00  
 Plate: 0011 row: K column: 17  
 Seq primer: CGTTGTAAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 20.

FEATURES  
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1. .20  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0011K17"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The

adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 43.8%; Score 9.2; DB 8; Length 20;  
 Best Local Similarity 78.6%; Pred. No. 7.4e+06;  
 Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 8 ATCTGAAGAGTCTG 21  
 |||||  
 Db 4 ATCTGAAGTGACCG 17

RESULT 9  
 AZ316351/c  
 LOCUS 20 bp DNA linear GSS 29-SEP-2000  
 DEFINITION 1M0034A11F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0034A11 F, genomic survey sequence.

ACCESSION AZ316351  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 Mus musculus (house mouse)

REFERENCE  
 AUTHORS  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL  
 COMMENT  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0034 row: A column: 11  
 Seq primer: CGTTGTAAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 20.

FEATURES  
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1. .20  
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 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0034A11"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The

adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

# ORIGIN

Query Match 43.8%; Score 9.2; DB 8; Length 20;  
 Best Local Similarity 78.6%; Pred. No. 7.4e+06;  
 Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 ATCTGAAGAGTCTG 21  
 ||||| ||||| |||||  
 Db 20 ATCTCAAGATACTG 7

RESULT 10  
 AZ328275/c  
 LOCUS  
 DEFINITION 20 bp DNA linear GSS 29-SEP-2000  
 1M0052A01F Mouse 10kb plasmid UUGCIM library Mus musculus genomic  
 clone UUGCIM0052A01 F, genomic survey sequence.

ACCESSION  
 AZ328275  
 VERSION  
 AZ328275.1 GI:10387840  
 KEYWORDS  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus

REFERENCE  
 AUTHORS  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 20)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,  
 Reilly,H., Rose,M., Rose,R., Stokes,R., Tingey,A., von  
 Niederhausern,A. and Wright,D.,Weiss,R.

TITLE  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 JOURNAL  
 Unpublished (2000)  
 COMMENT  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00  
 Plate: 0052 row: A column: 01  
 Seq primer: CGTTGTAACACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 20.  
 Location/Qualifiers  
 1..20  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGCIM0052A01"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGCIM library"  
 /notes="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male); was obtained from the Jackson  
 Laboratory Mouse DNA resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The

# FEATURES source

1..10  
 /organism="Arabidopsis thaliana"  
 /mol\_type="genomic DNA"  
 /cultivar="Wassilewskija"  
 /db\_xref="taxon:3702"  
 /clone="275G07"  
 /clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
 misc\_feature  
 1..10  
 /note="T-DNA flanking sequence  
 left border"

# ORIGIN

Query Match 42.9%; Score 9; DB 9; Length 10;

adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

# ORIGIN

Query Match 43.8%; Score 9.2; DB 8; Length 20;  
 Best Local Similarity 78.6%; Pred. No. 7.4e+06;  
 Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GCGTATCTGAAGAG 17  
 ||||| ||||| |||||  
 Db 19 GCGTACTGTAAAG 6

RESULT 11  
 AJ587417/c  
 LOCUS  
 DEFINITION 10 bp DNA linear GSS 15-JAN-2004  
 Arabidopsis thaliana T-DNA flanking sequence, left border, clone  
 275G07, genomic survey sequence.

ACCESSION  
 AJ587417  
 VERSION  
 AJ587417.1 GI:37937041  
 KEYWORDS  
 GSS; left border; T-DNA flanking sequence.  
 SOURCE  
 Arabidopsis thaliana (thale cress)  
 ORGANISM  
 Arabidopsis thaliana

REFERENCE  
 AUTHORS  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
 rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.  
 1  
 Brunaud,V., Balzerque,S., Dubreucq,B., Aubourg,S., Samson,F.,  
 Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,  
 Lepiniec,L., Caboche,M. and Lecharny,A.

TITLE  
 T-DNA integration into the Arabidopsis genome depends on sequences  
 of pre-insertion sites  
 JOURNAL  
 EMBO Rep. 3 (12), 1152-1157 (2002)  
 MEDLINE  
 22363535  
 PUBMED  
 12446565

REFERENCE  
 2 (bases 1 to 10)  
 Balzerque,S.  
 Direct Submission  
 Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue  
 Gaston Cremieux, 91057 Evry cedex, FRANCE

COMMENT  
 PCR was performed on DNA from transformants of Arabidopsis thaliana  
 plants from INRA (Versailles). The DNA fragment(s) resulting from  
 the PCR were directly sequenced from the left or the right border  
 to determine the genomic sequence flanking the insertion. T-DNA  
 derived sequences were removed. Information to order the  
 corresponding mutant line and a link to a database providing a  
 graphical display of the insertion site are available at  
 http://dbsgap.versailles.inra.fr/publiclines/. This sequence has  
 been generated in the framework of the French plant genomics  
 program 'Genoplatane' (http://www.genoplatane.com and  
 http://genoplatane-info.infobioen.fr).

# FEATURES

## source

1..10  
 /organism="Arabidopsis thaliana"  
 /mol\_type="genomic DNA"  
 /cultivar="Wassilewskija"  
 /db\_xref="taxon:3702"  
 /clone="275G07"  
 /clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
 misc\_feature  
 1..10  
 /note="T-DNA flanking sequence  
 left border"



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Best Local Similarity 100.0%; Pred. No. 8.5e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 AAGAGTCTG 21
DB 9 AAGAGTCT 1
|||||

RESULT 12
AJ684587 16 bp mRNA linear EST 29-JUN-2004
LOCUS AJ684587 CSEQRAN04 Sus scrofa cDNA clone C0001805_G15, mRNA
DEFINITION
ACCESSION AJ684587
VERSION AJ684587.1 GI:49417177
KEYWORDS EST.
SOURCE Sus scrofa (pig)
ORGANISM Sus scrofa
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
1 (bases 1 to 16)
Anderson, S.I., Finlayson, H.A. and Archibald, A.L.
Development of cDNA and EST resources for studying reproduction and
embryo development in pigs and cattle
Unpublished (2004)
JOURNAL
COMMENT Contact: Anderson SI
Genomics and Bioinformatics
Roslin Institute
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
Single pass sequencing. Bases called and trimmed with phred
v0.020425.c. Vector identified by cross match with the -minscore 20
and -mismatch 12 options. Vector: pBluescriptII (KS+) R. Site1: EcoRI
R. Site2: NotI 5' Seq Primer M13F Normalised library constructed
from pig uterus. Clones available from UK Centre for Functional
Genomics in Farm Animals, Roslin Institute, Roslin, Midlothian, UK,
EH25 9PS, www.arkgenomics.org.
Location/Qualifiers
FEATURES
source
1..16
/organism="Sus scrofa"
/mol_type="mRNA"
/db_xref="taxon:9823"
/clone="C0001805_G15"
/tissue_type="uterus"
/clone_lib="CSEQRAN04"
/note="Vector: pBluescriptII (KS+); Site 1: EcoRI; Site 2:
NotI; Single pass sequencing. Normalised library
constructed from pig uterus."

ORIGIN
Query Match 42.9%; Score 9; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 9e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GAAGAGTCT 20
DB 1 GAAGAGTCT 9
|||||

RESULT 13
AZ625776 20 bp DNA linear GSS 13-DEC-2000
LOCUS AZ625776
DEFINITION
1M0465C08R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0465C08 R, genomic survey sequence.
ACCESSION AZ625776
VERSION AZ625776.1 GI:11747966
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 20)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,

Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0465 row: C column: 08
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 20.
Location/Qualifiers
FEATURES
source
1..20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0465C08"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN
Query Match 42.9%; Score 9; DB 8; Length 20;
Best Local Similarity 70.6%; Pred. No. 9.3e+06;
Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GCGTATCTGAAGAGTCT 20
DB 2 GCGCACTTCAAGATTCT 18
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RESULT 14
BG924548/c 21 bp mRNA linear EST 06-NOV-2001
LOCUS BG924548
DEFINITION HNC27-1-G10.R HNC (Human Normal Cartilage) Homo sapiens cDNA, mRNA
sequence.
ACCESSION BG924548
VERSION BG924548.1 GI:114319071
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 21)
Kumar, S., Connor, J.R., Dodds, R.A., Halsey, W., Van Horn, M., Mao, J.,
Sathe, G., Mui, P., Agarwal, P., Badger, A.M., Lee, J.C., Gowen, M. and

```

Lark,M.W.  
 Identification and initial characterization of 5000 expressed  
 sequenced tags (ESTs) each from adult human normal and  
 osteoarthritic cartilage cDNA libraries  
 Osteoarthr. Cartil. 9 (7), 641-653 (2001)  
 MEDLINE  
 PUBMED 21482651  
 COMMENT 11597177  
 Contact: Sanjay Kumar  
 UW2109  
 GlaxoSmithKline  
 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406, USA  
 Tel: 610-270-7245  
 Fax: 610-270-5598  
 Email: sanjay\_kumar-l@gsk.com  
 Seq primer: T7.  
 Location/Qualifiers  
 1. .21  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /tissue\_type="cartilage"  
 /lab\_host="E.coli DH10 B"  
 /clone\_lib="HNC (Human Normal Cartilage)"  
 /note="Vector: pSPORT I; Site\_1: SalI; Site\_2: NotI;  
 Directional"

FEATURES  
 source  
 1. .21  
 Location/Qualifiers  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /tissue\_type="cartilage"  
 /lab\_host="E.coli DH10 B"  
 /clone\_lib="HNC (Human Normal Cartilage)"  
 /note="Vector: pSPORT I; Site\_1: SalI; Site\_2: NotI;  
 Directional"

ORIGIN  
 Query Match 42.9%; Score 9; DB 4; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 9.3e+06;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGGCGGTAT 9  
 |||||  
 DB 12 CTGGCGGTAT 4

RESULT 15  
 AJ587168/c  
 LOCUS  
 DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone  
 233H03, genomic survey sequence.  
 ACCESSION AJ587168  
 VERSION 1 GI:37936757  
 KEYWORDS GSS; left border; T-DNA flanking sequence.  
 SOURCE Arabidopsis thaliana (thale cress)  
 ORGANISM Arabidopsis thaliana  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
 rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsi.

REFERENCE  
 1  
 Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F.,  
 Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,  
 Lepiniec,L., Caboche,M. and Lecharny,A.  
 T-DNA integration into the Arabidopsis genome depends on sequences  
 of pre-insertion sites  
 EMBO Rep. 3 (12), 1152-1157 (2002)  
 MEDLINE 22363535  
 PUBMED 12446565  
 REFERENCE 2 (bases 1 to 17)  
 Balzergue,S.  
 Direct Submission  
 Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue  
 Gaston Cremieux, 91057 Evry cedex, FRANCE  
 PCR was performed on DNA from transformants of Arabidopsis thaliana  
 plants from INRA (Versailles). The DNA fragment(s) resulting from  
 the PCR were directly sequenced from the left or the right border  
 to determine the genomic sequence flanking the insertion. T-DNA  
 derived sequences were removed. Information to order the  
 corresponding mutant line and a link to a database providing a  
 graphical display of the insertion site are available at  
<http://dbsgap.versailles.inra.fr/publiclines/>. This sequence has  
 been generated in the framework of the French plant genomics  
 program 'Genoplante' (<http://www.genoplante.com> and

http://genoplante-info.infobiogen.fr) .  
 FEATURES  
 source  
 1. .17  
 Location/Qualifiers  
 /organism="Arabidopsis thaliana"  
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 /cultivar="Wassiliewskija"  
 /db\_xref="taxon:3702"  
 /clone="233H03"  
 /clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
 1. .17  
 misc\_feature  
 /note="T-DNA flanking sequence  
 left border"

ORIGIN  
 Query Match 41.9%; Score 8.8; DB 9; Length 17;  
 Best Local Similarity 83.3%; Pred. No. 1.1e+07;  
 Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CGTATCTGAAGA 16  
 |||||  
 DB 12 CGTAGTTGAAGA 1

RESULT 16  
 C00979  
 LOCUS HUMGS0003365 Human adult (K.Okubo) Homo sapiens cDNA, mRNA  
 DEFINITION sequence.  
 ACCESSION C00979  
 VERSION C00979.1 GI:1433209  
 KEYWORDS EST.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 20)  
 Okubo,K.  
 AUTHORS BodyMap; human gene expression database  
 TITLE Unpublished (1995)  
 JOURNAL Contact: Okubo,K.  
 COMMENT Institute for Molecular and Cellular Biol  
 Osaka University  
 1-3 Yamada-oka, Suita, Osaka Pref. 565, Japan  
 Tel: 06-877-5111(ex.3315)  
 Email: kousaku@imcb.osaka-u.ac.jp  
 We are not submitting the same cDNA sequence redundantly to DDBJ  
 since 1993. For the abundance information of clones with this  
 sequence in this library and as well as in other 3'-directed  
 libraries, see ' <http://www.imcb.osaka-u.ac.jp/bodymap>'. The  
 sequences of the clones represented by this GS sequences is also  
 found there.

FEATURES  
 source  
 1. .20  
 Location/Qualifiers  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /dev\_stage="adult"  
 /clone\_lib="Human adult (K.Okubo)"  
 /note="One or more human adult tissue"

ORIGIN  
 Query Match 41.9%; Score 8.8; DB 6; Length 20;  
 Best Local Similarity 83.3%; Pred. No. 1.2e+07;  
 Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 8 ATCTGAAGAGTC 19  
 |||||  
 DB 2 ATCTTAGAGTC 13

RESULT 17  
 CF325351/c  
 LOCUS CF325351 20 bp mRNA linear EST 18-AUG-2003

```

DEFINITION JMT1--03-A01.g1 AtJMT-overexpressing transgenic rice lambda phage
cDNA library (JMT1) Oryza sativa (japonica cultivar-group) cDNA
clone JMT1--03-A01, mRNA sequence.
ACCESSION CF325351
VERSION 1
SOURCE 1. .20
ORGANISM /organism="Oryza sativa (japonica cultivar-group)"
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzaceae; Oryza.
REFERENCE 1 (bases 1 to 20)
AUTHORS Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.
TITLE Large-scale Sequencing Analysis of Rice ESTs
JOURNAL Unpublished (2003)
COMMENT Contact: Nahm B.H.
Genomics and Genetics Institute, GreenGene Biotech Inc.; Division
of Bioscience and Bioinformatics, Myongji University
Yongin, Gyeonggi, Korea
Tel: 82 31 330 6193
Fax: 82 31 321 6355
Email: bhnahm@gbio.com, bhnahm@bio.myongji.ac.kr.
FEATURES
source
Location/Qualifiers
1. .20
/mol_type="mRNA"
/cultivar="Nackdong"
/db_xref="taxon:39947"
/clone="JMT1--03-A01"
/tissue_type="leaf"
/dev_stage="14 days after germination"
/lab_host="E.coli SOLR"
/clone_lib="AtJMT-overexpressing transgenic rice lambda
phage cDNA library (JMT1)"
/notes="Vector: pBluescript SK(+); Site 1: EcoRI; Site 2:
XhoI; cDNA was inserted into lambda Uni-ZAP XR vector at 5'
end with EcoRI and 3' end with XhoI site. mRNA was
prepared from Arabidopsis Jasmonate Carboxyl
methyltransferase overexpression line."
ORIGIN
Query Match 41.9%; Score 8.8; DB 7; Length 20;
Best Local Similarity 83.3%; Pred. No. 1.2e+07;
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 CTGCGGATCTG 12
|||||
Db 16 CTGCGGAATCAG 5
RESULT 18
D20709
LOCUS 20 bp mRNA linear EST 30-JUL-1996
DEFINITION HUMGS01685 Human promyelocyte Homo sapiens cDNA clone pm2147 3',
mRNA sequence.
ACCESSION D20709
VERSION 1
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 20)
AUTHORS Okubo,K., Fukushima,A., Yoshii,J., Niiyama,T., Kojima,Y.,
Yoshinari,H., Arimoto,J. and Matsuura,K.
TITLE Gene expression of human promyelocytic cell line HL60 before and
after induction of differentiation. A new application of 3'directed
cDNA sequencing
JOURNAL Unpublished (1993)
COMMENT Contact: Okubo,K., Fukushima,A., Yoshii,J., Niiyama,T., Kojima,Y.,
Yoshinari,H., Arimoto,J. and Matsuura,K.
Institute for Molecular and Cellular Biology

```

```

Osaka University
3-1 Yamada-oka,Suita,Osaka 565,Japan.
Location/Qualifiers
1. .20
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="pm2147"
/clone_lib="Human promyelocyte"
/notes="Female, adult, cell_line = HL60, cell_type =
promyelocyte."
ORIGIN
Query Match 41.9%; Score 8.8; DB 7; Length 20;
Best Local Similarity 83.3%; Pred. No. 1.2e+07;
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 8 ATCTGAAGAGTC 19
|||||
Db 2 ATCTCAAGAGTC 13
RESULT 19
AJ671616/c
LOCUS 19 bp mRNA linear EST 28-JUN-2004
DEFINITION AJ671616 KN224 Bos taurus cDNA clone KN224-006_N20, mRNA sequence.
ACCESSION AJ671616
VERSION 1
KEYWORDS EST.
SOURCE Bos taurus (cow)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovinae; Bos.
REFERENCE 1 (bases 1 to 19)
AUTHORS Anderson,S.I., Finlayson,H.A. and Archibald,A.L.
TITLE Development of cDNA and EST resources for studying reproduction and
embryo development in pigs and cattle
JOURNAL Unpublished (2004)
COMMENT Contact: Anderson SI
Genomics and Bioinformatics
Roslin Institute
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
Single pass sequencing. Bases called and trimmed with phred
v0.020425.c. Vector identified by cross match with the -minscore 20
and -minmatch 12 options. Vector: pBluescriptII(SK+) R. Site 1:
EcoRI R. Site 2: NotI 5' Seq primer M13F Description: Normalised
library constructed from Bovine Uterus tissue. Clones available
from UK Centre for Functional Genomics in Farm Animals, Roslin
Institute, Roslin, Midlothian, UK, EH25 9PS, www.arkgenomics.org.
FEATURES
source
Location/Qualifiers
1. .19
/organism="Bos taurus"
/mol_type="mRNA"
/db_xref="taxon:9913"
/clone="KN224-006_N20"
/tissue_type="uterus"
/clone_lib="KN224"
/notes="Vector: pBluescriptII(SK+); Site 1: EcoRI; Site 2:
NotI; Single pass sequencing. Normalised library
constructed from Bovine Uterus tissue."
ORIGIN
Query Match 41.0%; Score 8.6; DB 1; Length 19;
Best Local Similarity 73.3%; Pred. No. 1.5e+07;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 3 GCGGTATCTCAAGAG 17
|||||
Db 19 GTCATATCTGAGAG 5
RESULT 20

```



Hoon, S. T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.  
Direct Submission  
Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of  
Bioscience and Biotechnology (KRIIB), Genome Research Center (GRC);  
52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea  
(E-mail: redstone1.kriib.re.kr, URL: http://phs.grc.kriib.re.kr/,  
Tel: 82-42-866-7181, Fax: 82-42-860-4409)  
Clones are derived from the chimpanzee BAC library RP-43 This BAC  
end was generated during the R&D process and may have higher chance  
of clone tracking errors.  
PRIMERS

Sequencing: T7

LIBRARY  
Vector : pBACe3.6  
R.Site 1 : EcoRI  
R.Site 2 : EcoRI.  
Location/Qualifiers  
1..21  
/organism="Pan troglodytes"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9598"  
/clone="RP43-072L24.T7"  
/sex="male"  
/cell\_type="lymphocytes"  
/clone\_lib="RP-43 Chimpanzee Male BAC Library"

FEATURES  
source

Query Match 41.0%; Score 8.6; DB 9; Length 21;  
Best Local Similarity 73.3%; Pred. No. 1.5e+07;  
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 7 TATCTGAAGAGCTGTG 21  
||||| |||||  
Db 16 TTTCTGTAGCATCTG 2

RESULT 24  
AZ623493/c

LOCUS  
1M0461M13F Mouse 10kb plasmid UGCLM13 library Mus musculus genomic  
clone UGCLM0461M13 F, genomic survey sequence.

DEFINITION  
AZ623493  
AZ623493.1 GI:11745683  
GSS.

ACCESSION  
AZ623493

VERSION  
Mus musculus (house mouse)

KEYWORDS  
Mus musculus

SOURCE  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

ORGANISM  
1 (bases 1 to 19)  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von  
Niederhausern, A. and Wright, D. Weiss, R.  
Muses whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0461 row: M column: 13  
Seq primer: CGTGTGAACGACGCCAGT  
Class: plasmid ends  
High quality sequence stop: 19.  
Location/Qualifiers  
1..19  
/organism="Mus musculus"  
/mol\_type="genomic DNA"

REFERENCE  
AUTHORS

TITLE

JOURNAL

COMMENT

/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0461M13"  
/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 40.0%; Score 8.4; DB 8; Length 19;  
Best Local Similarity 90.0%; Pred. No. 1.8e+07;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TATCTGAAGA 16  
||| |||||  
Db 11 TAACTGAAGA 2

## RESULT 25

AZ818271  
LOCUS 20 bp DNA linear GSS 20-FEB-2001  
DEFINITION 2M0088M08F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0088M08 F, genomic survey sequence.

ACCESSION AZ818271 GI:12988179  
VERSION  
KEYWORDS  
SOURCE

ORGANISM Mus musculus (house mouse)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 20)

AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0088 row: M column: 08

Seq primer: CGTTGTAAACGACGCCACT

Class: Plasmid ends

High quality sequence stop: 20.

FEATURES  
source

Location/Qualifiers  
1..20  
/organism="Mus musculus"  
/mol\_type="genomic DNA"

/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0088M08"  
/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 40.0%; Score 8.4; DB 8; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.9e+07;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 ATCTGAAGAG 17  
||||| ||  
Db 4 ATCTGAATAG 13

## RESULT 26

AG199044/c  
LOCUS 20 bp DNA linear GSS 06-MAR-2004  
DEFINITION Pan troglodytes DNA, clone: RP43-080D07.TJ, genomic survey sequence.

ACCESSION AG199044  
VERSION AG199044.1 GI:45231220  
KEYWORDS  
SOURCE

ORGANISM Pan troglodytes (chimpanzee)

Pan troglodytes  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan. 1

AUTHORS Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J., Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.

TITLE BAC end sequences of Library RP-43

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 20)

AUTHORS Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J., Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.

TITLE Direct Submission

JOURNAL Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (KRIIB), Genome Research Center (GRC); 52, Oun-dong, Yuseong-gu, Daejeon 305-333, Korea (E-mail:redstone@mail.kribb.re.kr, URL:http://phs.grc.kribb.re.kr/, Tel:82-42-866-7181, Fax:82-42-860-4409)

COMMENT Clones are derived from the chimpanzee BAC library RP-43 This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.

PRIMERS

Sequencing: TJ

LIBRARY

Vector : pBACe3.6

R.Site 1 : EcoRI

R.Site 2 : EcoRI

Location/Qualifiers

1..20

```

/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
/clone="RP43-080D07.TJ"
/sex="male"
/cell_type="lymphocytes"
/clone_lib="RP-43 Chimpanzee Male BAC Library"

```

## ORIGIN

```

Query Match      40.0%; Score 8.4; DB 9; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 9 TCTGAGAGCT 18
   |||||
DB 18 TATGAGAGCT 9

```

```

RESULT 27
AG203835      20 bp DNA linear GSS 06-MAR-2004
LOCUS      Pan troglodytes DNA, clone: RP43-088M10.TJ, genomic survey
DEFINITION

```

```

ACCESSION      AG203835
VERSION      AG203835.1 GI:45236010
KEYWORDS
SOURCE      Pan troglodytes (chimpanzee)
ORGANISM

```

```

Pan troglodytes
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.

```

## REFERENCE

```

AUTHORS      Park H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C. J.,
Hoon, S. T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.

```

```

TITLE      BAC end sequences of Library RP-43

```

## JOURNAL

```

REFERENCE      Unpublished

```

```

AUTHORS      Park H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C. J.,
Hoon, S. T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.

```

## TITLE

```

JOURNAL      Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of
Bioscience and Biotechnology (KRIBB), Genome Research Center (GRC);
52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea
(E-mail:redstone@mail.krribb.re.kr, URL:http://pha.grc.krribb.re.kr/,
Tel:82-42-866-7181, Fax:82-42-860-4409)

```

```

COMMENT      Clones are derived from the chimpanzee BAC library RP-43. This BAC
end was generated during the R&D process and may have higher chance
of clone tracking errors.

```

## PRIMERS

```

Sequencing: TQ

```

## LIBRARY

```

Vector      : pBACe3.6
R.Site 1    : EcoRI
R.Site 2    : EcoRI.

```

## FEATURES

```

source      Location/Qualifiers
1..20
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
/clone="RP43-088M10.TJ"
/sex="male"
/cell_type="lymphocytes"
/clone_lib="RP-43 Chimpanzee Male BAC Library"

```

## ORIGIN

```

Query Match      40.0%; Score 8.4; DB 9; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 CTGGCGTATC 10
   |||||
DB 3 CTGGCGTATC 12

```

```

RESULT 28
AZ787920/c
LOCUS
DEFINITION

```

```

2M0034M09R Mouse 10kb plasmid UUGC1M library Mus musculus genomic

```

```

ACCESSION      AZ787920
VERSION      AZ787920.1 GI:12927197
KEYWORDS
SOURCE      Mus musculus (house mouse)

```

## ORGANISM

```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

```

## REFERENCE

```

AUTHORS      Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D. Weiss, R.

```

```

TITLE      Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

```

## JOURNAL

```

COMMENT      Unpublished (2000)

```

```

Contact: Robert B. Weiss

```

```

University of Utah

```

```

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

```

```

84112, USA

```

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Tel: 801 585 5606

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Fax: 801 585 7177

```

```

Email: ddunn@genetics.utah.edu

```

```

Insert Length: 10000 Std Error: 0.00

```

```

Plate: 0034 row: M column: 09

```

```

Seq primer: CACACAGAAACAGCTATGACC

```

```

Class: plasmid ends

```

```

High quality sequence stop: 21.

```

## FEATURES

```

source      Location/Qualifiers
1..221

```

```

/organism="Mus musculus"
/mol_type="genomic DNA"

```

```

/strain="C57BL/6J"

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```

/db_xref="taxon:10090"

```

```

/clone="UUGC2M0034M09"

```

```

/sex="Male"

```

```

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

```

```

/clone_lib="Mouse 10kb plasmid UUGC1M library"

```

```

/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (GI4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

```

## ORIGIN

```

Query Match      40.0%; Score 8.4; DB 8; Length 21;
Best Local Similarity 66.7%; Pred. No. 1.9e+07;
Matches 12; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

```

```

QY 2 TGGCGTATCTGAGAGTC 19
   |||||
DB 18 TGGTTATCTTCAATGTC 1

```

```

RESULT 29
CL694050
LOCUS
DEFINITION
CL694050
13 bp DNA linear GSS 10-JUL-2004
P. pacificus var. California Pristionchus pacificus genomic, genomic
survey sequence.
CL694050
GSS
CL694050.1 GI:50215958
Pristionchus pacificus
Pristionchus pacificus
Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;
Neodiplogasteridae; Pristionchus.
1 (bases 1 to 13)
Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.
AppADB: an AcedB database for the nematode satellite organism
Pristionchus pacificus
Nucleic Acids Res. 32 (1), D421-D422 (2004)
Contact: Sommer RJ
Evolutionary Biology
Max-Planck-Institute for Developmental Biology
Spemannstr. 37-39, Tuebingen D-72076, Germany
Tel: 00497071601371
Fax: 00497071601498
Email: ralf.sommer@tuebingen.mpg.de
This library was generated at Caltech, Pasadena, USA and end
sequenced at Vancouver, Canada.
Seq primer: T7
Class: fosmid ends.
Location/Qualifiers
1. .13
/organism="Pristionchus pacificus"
/mol_type="genomic DNA"
/strain="California"
/db_xref="taxon:54126"
/clone_lib="Mixed stage fosmid library of P. pacificus
var. California"
/note="Vector: pEpifos-5 Fosmid vector"

ORIGIN
Query Match 39.0%; Score 8.2; DB 9; Length 13;
Best Local Similarity 76.9%; Pred. No. 2.2e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGGCGTATCTGA 13
||| |||||
Db 1 CTGCGTTATCTGA 13

RESULT 30
CL423467
LOCUS
DEFINITION
CL423467
17 bp DNA linear GSS 16-MAR-2004
01S0557-03A1-C12 UniformMu MutAIL Library Zea mays genomic clone
CL423467
GSS
CL423467.1 GI:45501511
Zea mays
Zea mays
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
clade; Panicoideae; Andropogoneae; Zea.
1 (bases 1 to 17)
Lathshaw,S., Tan,B.-C., Settles,A.M. and McCarty,D.R.
Sequence tagged transposon insertions from the UniformMu maize
population
Unpublished (2003)
Contact: Donald R. McCarty
Plant Molecular and Cellular Biology Program
University of Florida
PO 110690 Gainesville, FL 32611-0690, USA
Tel: 352-392-1928 x322
Email: drmc@ufl.edu

FEATURES
source
Sequence flanking probable Mu insertion site in UniformMu
line: 01S0557-03, Primer set: A
Class: transposon insertion site.
Location/Qualifiers
1. .17
/organism="Zea mays"
/mol_type="genomic DNA"
/strain="W22 (ACR, bz1-m9)"
/cultivar="UniformMu"
/db_xref="taxon:4577"
/clone="01S0557-03A1-C12"
/clone_lib="UniformMu MutAIL Library"
/note="Vector: TOPO-PCR4; DNA flanking Mu transposon
insertions in Mu inactive lines were extracted from the
UniformMu maize population by the thermo asymmetric
interlaced PCR (TAIL) protocol using primers specific for
the Mu terminal inverted repeat and a set of 16 arbitrary
primers. Amplicons were size enriched using Sepharose 400
spin columns and cloned into the TOPO PCR4 vector."

ORIGIN
Query Match 39.0%; Score 8.2; DB 9; Length 17;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 ATCTGAAGAGTCT 20
||||| |||
Db 2 ATCTGGACAGTTT 14

RESULT 31
AJ662026
LOCUS
DEFINITION
AJ662026
18 bp mRNA linear EST 28-JUN-2004
AJ662026 CSEQRAN09 Sus scrofa cDNA clone C000023_015, mRNA
sequence.
AJ662026
VERSION
AJ662026.1 GI:49346149
EST.
SOURCE
Sus scrofa (pig)
ORGANISM
Sus scrofa
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
1 (bases 1 to 18)
Anderson,S.I., Finlayson,H.A. and Archibald,A.L.
Development of cDNA and EST resources for studying reproduction and
embryo development in pigs and cattle
Unpublished (2004)
Contact: Anderson SI
Genomics and Bioinformatics
Roslin Institute
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
Single pass sequencing. Bases called and trimmed with phred
v0.020425.c. Vector identified by cross match with the -minscore 20
and -minmatch 12 options. Vector:pBlueScriptII(KS+) R. Site 1:
EcoRI R. Site 2: NotI Description: Normalised library constructed
from pooled tissue from day 30 placentas. Clones available from UK
Centre for Functional Genomics in Farm Animals, Roslin Institute,
Roslin, Midlothian, UK, EH25 9PS, www.arkgenomics.org.
Location/Qualifiers
1. .18
/organism="Sus scrofa"
/mol_type="mRNA"
/db_xref="taxon:9823"
/clone="C0000023_015"
/tissue_type="placenta"
/clone_lib="CSEQRAN09"
/note="Vector: pBlueScriptII(KS+); Site 1: EcoRI; Site 2:
NotI; Single pass sequencing. Normalised library
constructed from pooled tissue from day 30 placentas."

ORIGIN
Query Match 39.0%; Score 8.2; DB 1; Length 18;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;

```

```

FEATURES
source
Sequence flanking probable Mu insertion site in UniformMu
line: 01S0557-03, Primer set: A
Class: transposon insertion site.
Location/Qualifiers
1. .17
/organism="Zea mays"
/mol_type="genomic DNA"
/strain="W22 (ACR, bz1-m9)"
/cultivar="UniformMu"
/db_xref="taxon:4577"
/clone="01S0557-03A1-C12"
/clone_lib="UniformMu MutAIL Library"
/note="Vector: TOPO-PCR4; DNA flanking Mu transposon
insertions in Mu inactive lines were extracted from the
UniformMu maize population by the thermo asymmetric
interlaced PCR (TAIL) protocol using primers specific for
the Mu terminal inverted repeat and a set of 16 arbitrary
primers. Amplicons were size enriched using Sepharose 400
spin columns and cloned into the TOPO PCR4 vector."

ORIGIN
Query Match 39.0%; Score 8.2; DB 9; Length 17;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 ATCTGAAGAGTCT 20
||||| |||
Db 2 ATCTGGACAGTTT 14

RESULT 31
AJ662026
LOCUS
DEFINITION
AJ662026
18 bp mRNA linear EST 28-JUN-2004
AJ662026 CSEQRAN09 Sus scrofa cDNA clone C000023_015, mRNA
sequence.
AJ662026
VERSION
AJ662026.1 GI:49346149
EST.
SOURCE
Sus scrofa (pig)
ORGANISM
Sus scrofa
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
1 (bases 1 to 18)
Anderson,S.I., Finlayson,H.A. and Archibald,A.L.
Development of cDNA and EST resources for studying reproduction and
embryo development in pigs and cattle
Unpublished (2004)
Contact: Anderson SI
Genomics and Bioinformatics
Roslin Institute
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
Single pass sequencing. Bases called and trimmed with phred
v0.020425.c. Vector identified by cross match with the -minscore 20
and -minmatch 12 options. Vector:pBlueScriptII(KS+) R. Site 1:
EcoRI R. Site 2: NotI Description: Normalised library constructed
from pooled tissue from day 30 placentas. Clones available from UK
Centre for Functional Genomics in Farm Animals, Roslin Institute,
Roslin, Midlothian, UK, EH25 9PS, www.arkgenomics.org.
Location/Qualifiers
1. .18
/organism="Sus scrofa"
/mol_type="mRNA"
/db_xref="taxon:9823"
/clone="C0000023_015"
/tissue_type="placenta"
/clone_lib="CSEQRAN09"
/note="Vector: pBlueScriptII(KS+); Site 1: EcoRI; Site 2:
NotI; Single pass sequencing. Normalised library
constructed from pooled tissue from day 30 placentas."

ORIGIN
Query Match 39.0%; Score 8.2; DB 1; Length 18;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;

```



```

Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 GCGTATCTGAAG 15
    |||||
Db 2 GCGTCTTTGGAG 14
    |||||

RESULT 32
AJ58865
LOCUS
DEFINITION
Arabidopsis thaliana T-DNA flanking sequence, right border, clone
539G02, genomic survey sequence.
ACCESSION
AJ58865
VERSION
AJ58865.1 GI:37938489
KEYWORDS
GSS; right border; T-DNA flanking sequence.
SOURCE
Arabidopsis thaliana (thale cress)
ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsi.
1
REFERENCE
AUTHORS
Brunaud V., Balzerque S., Dubreucq B., Aubourg S., Samson F.,
Chauvin S., Bechtold N., Cruaud C., DeRose R., Pelletier G.,
Lepiniec L., Caboche M. and Lecharny A.
TITLE
T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites
JOURNAL
EMBO Rep. 3 (12), 1152-1157 (2002)
MEDLINE
22363535
PUBMED
12446565
REFERENCE
2 (bases 1 to 18)
AUTHORS
Balzerque S.
TITLE
Direct Submission
JOURNAL
Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE
COMMENT
PCR was performed on DNA from transformants of Arabidopsis thaliana.
plants from INRA (Versailles). The DNA fragment(s) resulting from
the PCR were directly sequenced from the left or the right border
to determine the genomic sequence flanking the insertion. T-DNA
derived sequences were removed. Information to order the
corresponding mutant line and a link to a database providing a
graphical display of the insertion site are available at
http://dbsgap.versailles.inra.fr/publiclines/. This sequence has
been generated in the framework of the French plant genomics
program 'Genoplante' (http://www.genoplante.com and
http://genoplante-info.infobiogen.fr).
FEATURES
source
1..18
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/cultivar="Massillewskija"
/db_xref="taxon:3702"
/clone="539G02"
misc_feature
1..18
/notes="T-DNA flanking sequence
right border"
ORIGIN
Query Match 39.0%; Score 8.2; DB 9; Length 18;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 ATCTGAGAGTCT 20
    |||||
Db 4 ATCTGATGGCCT 16
    |||||

RESULT 33
AJ58865/c
LOCUS
DEFINITION
AJ58865
1M0101K12F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0101K12 F, genomic survey sequence.
ACCESSION
AJ58865

```

```

VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
FEATURES
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1..19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0101K12"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 Kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
ORIGIN
Query Match 39.0%; Score 8.2; DB 8; Length 19;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 9 TCTGAGAGTCTG 21
    |||||
Db 19 TGTGAGGAGTGTG 7
    |||||

RESULT 34
BQ595520
LOCUS
DEFINITION
BQ595520
20 bp mRNA linear EST 06-DEC-2002
BQ595520
E012693-024-022-L12-SF6 MP1Z-ADIS-024-developing root Beta vulgaris
cDNA clone 024-022-L12 5-PRIME, mRNA sequence.
ACCESSION
BQ595520

```

```

AZ358656.1 GI:10472356
GSS.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D. Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0101 row: K column: 12
Seq primer: CGTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0101K12"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 Kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
ORIGIN
Query Match 39.0%; Score 8.2; DB 8; Length 19;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```



Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0233 row: A column: 10  
 Seq primer: CACACAGAAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 20.

#### FEATURES

source

1. .20  
 Location/Qualifiers  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0233A10"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

#### ORIGIN

Query Match 39.0%; Score 8.2; DB 8; Length 20;  
 Best Local Similarity 76.9%; Pred. No. 2.3e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TGGCGTATCTGAA 14  
 |||||  
 Db 5 TGGGATAGCTGAA 17

#### RESULT 37

AZ772787/c  
 LOCUS  
 DEFINITION  
 1M0583M24R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0583M24 R, genomic survey sequence.

ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM

AZ772787  
 1M0583M24R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0583M24 R, genomic survey sequence.  
 GSS.  
 Mus musculus (house mouse)  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 20)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,

Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0583 row: M column: 24  
 Seq primer: CACACAGAAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 20.

#### FEATURES

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 Location/Qualifiers  
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 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0583M24"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

#### ORIGIN

Query Match 39.0%; Score 8.2; DB 8; Length 20;  
 Best Local Similarity 76.9%; Pred. No. 2.3e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 9 TCTGAAGACTCTG 21  
 |||||  
 Db 13 TCTTAAGAGAGTG 1

#### RESULT 38

AZ807038  
 LOCUS  
 DEFINITION  
 2M0069C06R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0069C06 R, genomic survey sequence.

ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM

AZ807038  
 2M0069C06R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0069C06 R, genomic survey sequence.  
 GSS.  
 Mus musculus (house mouse)  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 20)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,

Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 CONTACT: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: dunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0069 row: C column: 06  
 Seq primer: CACACAGAAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 20.

FEATURES  
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 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
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 /db\_xref="taxon:10090"  
 /clone="UUGC2M0069C06"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, Tl-resistant, P-"  
 /clone\_lib="Mouse 10kb plasmid UUGCLM library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (g1.4732114[gb]/AP129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

Query Match 39.0%; Score 8.2; DB 8; Length 20;  
 Best Local Similarity 76.9%; Pred. No. 2.3e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 3 GCGGTATCTGAAG 15  
 |||||  
 Db 8 GGCTGACCTGAAG 20  
 RESULT 39  
 CL436802 21 bp DNA linear GSS 18-MAR-2004  
 LOCUS PST3869-NR.Seq MICE1 Mus musculus genomic clone PST3869-NR.Seq  
 DEFINITION similar to 682040202ORik, genomic survey sequence.  
 CL436802  
 ACCESSION CL436802.1 GI:45571964  
 VERSION  
 KEYWORDS GSS.  
 SOURCE Mus musculus (house mouse)  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 21)  
 AUTHORS Hicks,G.G.  
 TITLE www.EScells.ca

## JOURNAL COMMENT

Unpublished (2002)  
 Contact: Hicks GG  
 Mammalian Functional Genomics Centre  
 Manitoba Institute of Cell Biology, University of Manitoba  
 ON5029, 675 McDermot Ave, Winnipeg, MB R3E 0V9, Canada  
 Tel: 204 787 2133  
 Fax: 204 787 2190  
 Email: hicksgg@cc.umanitoba.ca  
 U3NeosV1 gene trap. Tag generated by plasmid rescue. Additional sequence information and target gene cloning can be generated. ES cell line harboring insertion mutation of target gene is available. Sequence analysis available from  
 http://140.193.242.7/esdb/public\_search\_frame.php?PST=PST3869-NR.Se

Class: Gene Trap.  
 Location/Qualifiers  
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 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="129 sv"  
 /db\_xref="taxon:10090"  
 /clone="PST3869-NR.Seq"  
 /sex="Male"  
 /cell\_type="Embryonic stem cell"  
 /cell\_line="D3H (J1 subclone)"  
 /clone\_lib="MICE1"  
 /note="Vector: U3NeosV1"

## ORIGIN

Query Match 39.0%; Score 8.2; DB 9; Length 21;  
 Best Local Similarity 61.9%; Pred. No. 2.3e+07;  
 Matches 13; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 CTGGCGTATCTGAAGAGTCTG 21  
 |||||  
 Db 1 CTGGCTGCCCTTAAGGCATG 21

## RESULT 40

BG927412 11 bp mRNA linear EST 06-NOV-2001  
 LOCUS HNC1-1-G11.R HNC (Human Normal Cartilage) Homo sapiens cDNA, mRNA  
 DEFINITION sequence.

ACCESSION BG927412  
 VERSION BG927412.1 GI:14321935  
 KEYWORDS EST.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 11)  
 Kumar,S., Connor,J.R., Dodds,R.A., Halsey,W., Van Horn,M., Mao,J.,  
 Sathe,G., Mui,P., Agarwal,P., Badger,A.M., Lee,J.C., Gowen,M. and  
 Lark,M.W.

Identification and initial characterization of 5000 expressed  
 sequenced tags (ESTs) each from adult human normal and  
 osteoarthritic cartilage cDNA libraries  
 Osteoarthr. Cartil. 9 (7), 641-653 (2001)

JOURNAL MEDLINE  
 PUBMED 21482651  
 COMMENT 11597177

Contact: Sanjay Kumar

UN2109

GlaxoSmithKline  
 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406, USA  
 Tel: 610-270-7245  
 Fax: 610-270-5598  
 Email: sanjay.kumar-1@gsk.com

Seq primer: T7

Location/Qualifiers  
 1..11  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"

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./tissue_type="cartilage"  
/lab_host="E.coli DH10 B"  
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Directional"
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ORIGIN

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Best Local Similarity 100.0%; Pred. No. 2.7e+07;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy      1 CTGGCGTA 8  
        |||||  
Db      9 CTGGCGTA 2
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Search completed: August 12, 2005, 11:03:27  
Job time : 1812 secs

**THIS PAGE IS BLANK**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 10:33:19 ; Search time 1581 Seconds  
(without alignments)  
612.969 Million cell updates/sec

Title: US-09-743-825-10

Perfect score: 20

Sequence: 1 gaccgcagatcttcaga 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 790860

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

GenEmbl.\*

1: gb.ba.\*

2: gb.htg.\*

3: gb.in.\*

4: gb.om.\*

5: gb.ov.\*

6: gb.pat.\*

7: gb.ph.\*

8: gb.pl.\*

9: gb.pr.\*

10: gb.ro.\*

11: gb.sts.\*

12: gb.sy.\*

13: gb.un.\*

14: gb.vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | DB ID      | Description |
|------------|-------|-------------|--------|------------|-------------|
| 1          | 13.8  | 69.0        | 20     | 6 AR312275 | Sequence    |
| C 2        | 12.2  | 61.0        | 18     | 6 AR096404 | Sequence    |
| C 3        | 12.2  | 61.0        | 18     | 6 BD217452 | Antisense   |
| 4          | 12    | 60.0        | 20     | 6 AR031072 | Sequence    |
| 5          | 12    | 60.0        | 20     | 6 AR152833 | Sequence    |
| 6          | 12    | 60.0        | 20     | 6 BD134289 | Detection   |
| C 7        | 11.8  | 59.0        | 17     | 6 AX735344 | Sequence    |
| 8          | 11.8  | 59.0        | 17     | 6 AX759065 | Sequence    |
| 9          | 11.8  | 59.0        | 18     | 6 A65727   | Sequence    |
| C 10       | 11.8  | 59.0        | 18     | 6 AR048183 | Sequence    |
| C 11       | 11.8  | 59.0        | 18     | 6 E10136   | PCR primer  |
| 12         | 11.8  | 59.0        | 20     | 6 AR023697 | Sequence    |
| C 13       | 11.6  | 58.0        | 19     | 6 AX207008 | Sequence    |
| 14         | 11.6  | 58.0        | 20     | 6 AX353519 | Sequence    |
| 15         | 11.4  | 57.0        | 15     | 6 I61735   | Sequence    |
| 16         | 11.4  | 57.0        | 15     | 6 AX636229 | Sequence    |
| C 17       | 11.4  | 57.0        | 17     | 6 AR111392 | Sequence    |
| C 18       | 11.4  | 57.0        | 17     | 6 AR364674 | Sequence    |
| C 19       | 11.4  | 57.0        | 17     | 6 AX734698 | Sequence    |

|      |      |      |    |              |             |
|------|------|------|----|--------------|-------------|
| C 20 | 11.4 | 57.0 | 19 | 6 AX130020   | Sequence    |
| C 21 | 11.4 | 57.0 | 19 | 6 AX130021   | Sequence    |
| 22   | 11.4 | 57.0 | 20 | 6 AX269412   | Sequence    |
| 23   | 11.4 | 57.0 | 20 | 6 AX270943   | Sequence    |
| 24   | 11.2 | 56.0 | 18 | 6 AR292962   | Sequence    |
| C 25 | 11.2 | 56.0 | 19 | 6 AX378663   | Sequence    |
| 26   | 11.2 | 56.0 | 20 | 6 AR072310   | Sequence    |
| C 27 | 11.2 | 56.0 | 20 | 6 AR123092   | Sequence    |
| 28   | 11.2 | 56.0 | 20 | 6 CQ770343   | Sequence    |
| 29   | 11.2 | 56.0 | 20 | 6 I26421     | Sequence    |
| C 30 | 11.2 | 56.0 | 20 | 6 AR313207   | Sequence    |
| C 31 | 11.2 | 56.0 | 20 | 6 AR359611   | Sequence    |
| C 32 | 11.2 | 56.0 | 20 | 6 AR559459   | Sequence    |
| C 33 | 11.2 | 56.0 | 20 | 6 AX259854   | Sequence    |
| C 34 | 11.2 | 56.0 | 20 | 6 AX259855   | Sequence    |
| 35   | 11   | 55.0 | 17 | 6 BD254799   | Regulatio   |
| 36   | 11   | 55.0 | 17 | 6 BD254800   | Regulatio   |
| 37   | 11   | 55.0 | 17 | 6 BD254801   | Regulatio   |
| 38   | 11   | 55.0 | 17 | 6 AR110604   | Sequence    |
| C 39 | 11   | 55.0 | 18 | 6 AR567503   | Sequence    |
| C 40 | 11   | 55.0 | 18 | 6 AX277553   | Sequence    |
| C 41 | 11   | 55.0 | 18 | 6 AX418117   | Sequence    |
| C 42 | 11   | 55.0 | 19 | 6 AX816790   | Sequence    |
| 43   | 11   | 55.0 | 20 | 6 E30865     | Oligonucleo |
| 44   | 11   | 55.0 | 20 | 6 E37662     | Method for  |
| 45   | 11   | 55.0 | 20 | 6 I58336     | Sequence    |
| 46   | 10.8 | 54.0 | 15 | 6 AR180134   | Sequence    |
| 47   | 10.8 | 54.0 | 15 | 6 AR180675   | Sequence    |
| C 48 | 10.8 | 54.0 | 17 | 6 AX693268   | Sequence    |
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| C 50 | 10.8 | 54.0 | 17 | 6 AX693270   | Sequence    |
| C 51 | 10.8 | 54.0 | 17 | 6 AX693271   | Sequence    |
| C 52 | 10.8 | 54.0 | 17 | 6 AX736308   | Sequence    |
| C 53 | 10.8 | 54.0 | 17 | 6 AX758685   | Sequence    |
| C 54 | 10.8 | 54.0 | 17 | 6 AX759814   | Sequence    |
| C 55 | 10.8 | 54.0 | 17 | 10 MMTC1X5AC | M.musculus  |
| 56   | 10.8 | 54.0 | 18 | 6 BD223754   | Endogenou   |
| 57   | 10.8 | 54.0 | 20 | 6 BD176767   | Method of   |
| C 58 | 10.8 | 54.0 | 20 | 6 AR208738   | Sequence    |
| C 59 | 10.6 | 53.0 | 17 | 6 A92171     | Sequence    |
| C 60 | 10.6 | 53.0 | 17 | 6 AR189852   | Sequence    |
| C 61 | 10.6 | 53.0 | 17 | 6 AR324840   | Sequence    |
| 62   | 10.6 | 53.0 | 17 | 6 AR402059   | Sequence    |
| C 63 | 10.6 | 53.0 | 17 | 6 AX226904   | Sequence    |
| 64   | 10.6 | 53.0 | 17 | 6 AX761103   | Sequence    |
| C 65 | 10.6 | 53.0 | 17 | 6 BD009147   | Herbicide   |
| 66   | 10.6 | 53.0 | 17 | 6 BD067559   | Enzymatic   |
| 67   | 10.6 | 53.0 | 18 | 6 CQ786884   | Sequence    |
| 68   | 10.6 | 53.0 | 18 | 6 CQ786886   | Sequence    |
| 69   | 10.6 | 53.0 | 18 | 6 AR392133   | Sequence    |
| 70   | 10.6 | 53.0 | 19 | 6 AR108171   | Sequence    |
| 71   | 10.6 | 53.0 | 19 | 6 AR148621   | Sequence    |
| C 72 | 10.6 | 53.0 | 19 | 6 AR156552   | Sequence    |
| 73   | 10.6 | 53.0 | 19 | 6 E26923     | Vascular en |
| 74   | 10.6 | 53.0 | 19 | 6 AR206672   | Sequence    |
| C 75 | 10.6 | 53.0 | 20 | 6 AR097061   | Sequence    |
| 76   | 10.6 | 53.0 | 20 | 6 AR165231   | Sequence    |
| C 77 | 10.6 | 53.0 | 20 | 6 BD205208   | Method of   |
| 78   | 10.6 | 53.0 | 20 | 6 BD231398   | Isolated    |
| 79   | 10.6 | 53.0 | 20 | 6 E36220     | Japanese ci |
| 80   | 10.6 | 53.0 | 20 | 6 E47018     | Simultaneo  |
| 81   | 10.6 | 53.0 | 20 | 6 AR201402   | Sequence    |
| 82   | 10.6 | 53.0 | 20 | 6 AR225050   | Sequence    |
| C 83 | 10.6 | 53.0 | 20 | 6 AR252980   | Sequence    |
| 84   | 10.6 | 53.0 | 20 | 6 AR264191   | Sequence    |
| C 85 | 10.6 | 53.0 | 20 | 6 AR297463   | Sequence    |
| C 86 | 10.6 | 53.0 | 20 | 6 AR336993   | Sequence    |
| C 87 | 10.6 | 53.0 | 20 | 6 AX118550   | Sequence    |
| C 88 | 10.6 | 53.0 | 20 | 6 AX459958   | Sequence    |
| C 89 | 10.6 | 53.0 | 20 | 6 AX777573   | Sequence    |
| 90   | 10.4 | 52.0 | 15 | 6 I61736     | Sequence    |
| 91   | 10.4 | 52.0 | 15 | 6 AX636230   | Sequence    |
| C 92 | 10.4 | 52.0 | 17 | 6 AX673751   | Sequence    |

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c 93 10.4 52.0 17 6 AX693266 Sequence
c 94 10.4 52.0 17 6 AX693267 Sequence
c 95 10.4 52.0 17 6 AX725386 Sequence
c 96 10.4 52.0 17 6 AX733563 Sequence
c 97 10.4 52.0 17 6 AX733563 Sequence
c 98 10.4 52.0 17 6 AX745403 Sequence
c 99 10.4 52.0 17 6 AX745404 Sequence
c 100 10.4 52.0 17 6 AX745405 Sequence
c 101 10.4 52.0 17 6 AX745406 Sequence

ALIGNMENTS

RESULT 1
LOCUS AR312275 20 bp DNA PAT 12-JUN-2003
DEFINITION Sequence 2812 from patent US 6559294.
ACCESSION AR312275
VERSION AR312275.1 GI:31705701
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Griffais,R., Hoiseth,S.K., Zagursky,R.J., Metcalf,B.J., Peek,J.A.,
Sankaran,B. and Fletcher,L.D.
TITLE Chlamydia pneumoniae polynucleotides and uses thereof
JOURNAL Patent: US 6559294-A 2812 06-MAY-2003;
FEATURES
source
Location/Qualifiers
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/mol_type="genomic DNA"

ORIGIN
Query Match 69.0%; Score 13.8; DB 6; Length 20;
Best Local Similarity 88.2%; Pred. No. 7.3e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GACCGCATAGACTTCTC 17
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Db 3 GACCGCATAACTTATC 19

RESULT 2
AR096404/c
LOCUS AR096404 18 bp DNA PAT 08-SEP-2000
DEFINITION Sequence 75 from patent US 6007995.
ACCESSION AR096404
VERSION AR096404.1 GI:10025180
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 18)
AUTHORS Baker,B.F. and Cowsert,L.M.
TITLE Antisense inhibition of TNFR1 expression
JOURNAL Patent: US 6007995-A 75 28-DEC-1999;
FEATURES
source
Location/Qualifiers
1..18
/organism="unknown"
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ORIGIN
Query Match 61.0%; Score 12.2; DB 6; Length 18;
Best Local Similarity 82.4%; Pred. No. 6.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 CGCATAGACTTCTCAGA 20
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Db 18 CGCCCGATGTTCTCAGA 2

RESULT 3
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LOCUS AR096404 18 bp DNA PAT 17-JUL-2003
DEFINITION Antisense modulation of TNFR1 expression.
ACCESSION BD217452
VERSION BD217452.1 GI:33027222
KEYWORDS JP 2002519015-A/75.
SOURCE unidentified
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Baker,B.F. and Cowsert,L.M.
TITLE Antisense modulation of TNFR1 expression
JOURNAL Patent: JP 2002519015-A 75 02-JUL-2002;
COMMENT ISIS PHARMACEUTICALS INC
OS Unidentified
PN JP 2002519015-A/75
PD 02-JUL-2002
PF 17-JUN-1999 JP 2000557265
PR 26-JUN-1998 US 09/106038
PI BRENDA F BAKER, LEX M COWSERT
PC
C12N15/09,A61K31/7105,A61K31/711,A61K48/00,A61P29/00,A61P43/00, PC
C12Q1/68,
PC C12N15/00
CC Strandedness: Single;
CC Topology: Linear;
CC Antisense modulation of TNFR1 expression
FH Key Location/Qualifiers
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/organism='Unidentified'.
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/mol_type="genomic DNA"
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ORIGIN
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Best Local Similarity 82.4%; Pred. No. 6.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 CGCATAGACTTCTCAGA 20
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Db 18 CGCCCGATGTTCTCAGA 2

RESULT 4
AR031072
LOCUS AR031072 20 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 60 from patent US 5861504.
ACCESSION AR031072
VERSION AR031072.1 GI:5944286
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Polymeropoulos,M.H. and Merrill,C.R.
TITLE Eleven highly informative microsatellite repeat polymorphic DNA
markers
JOURNAL Patent: US 5861504-A 60 19-JAN-1999;
FEATURES
source
Location/Qualifiers
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ORIGIN
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Best Local Similarity 75.0%; Pred. No. 8.5e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GACCGCATAGACTTCTCAGA 20
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Db 1 GACCCACAGCCTATTTCAGA 20

RESULT 5
LOCUS AR152833
DEFINITION Sequence 113 from patent US 6235470.
ACCESSION AR152833
VERSION AR152833.1 GI:15120365
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
AUTHORS Sidransky, D.
TITLE Detection of neoplasia by analysis of saliva
JOURNAL Patent: US 6235470-A 113 22-MAY-2001;
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source Location/Qualifiers
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Best Local Similarity 75.0%; Pred. No. 8.5e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20
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Db 1 GACCCACAGCCTATTTCAGA 20

RESULT 6
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LOCUS BD134289
DEFINITION Detection of neoplasia by analysis of saliva.
ACCESSION BD134289
VERSION BD134289.1 GI:23229234
KEYWORDS JP 2002505888-A/113.
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
AUTHORS Sidlaneki, D.
TITLE Detection of neoplasia by analysis of saliva
JOURNAL Patent: JP 2002505888-A 113 26-FEB-2002;
COMMENT THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
OS Artificial Sequence
PN JP 2002505888-A/113
PD 26-FEB-2002
PF 10-MAR-1999 JP 2000535774
PR 10-MAR-1998 US 09/038637
PI DAVID SIDLANSKI
PC C12N15/09, C12Q1/68, C12N15/00
CC nucleotide
FH Key Location/Qualifiers
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source Location/Qualifiers
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/db_xref="taxon:32630"
ORIGIN
Query Match 60.0%; Score 12; DB 6; Length 20;
Best Local Similarity 75.0%; Pred. No. 8.5e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20.
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Db 1 GACCCACAGCCTATTTCAGA 20

RESULT 7
LOCUS AX735344/c
DEFINITION Sequence 934 from Patent WO03025177.
ACCESSION AX735344
VERSION AX735344.1 GI:30514621
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Telerman, A., Anson, R. and Tuijnder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses and the use thereof as medicaments
JOURNAL Patent: WO 03025177-A 934 27-MAR-2003;
FEATURES
source Location/Qualifiers
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/mol_type="unassigned DNA"
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Query Match 59.0%; Score 11.8; DB 6; Length 17;
Best Local Similarity 86.7%; Pred. No. 1.1e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAGA 20
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Db 17 CATAAACTTCTCTGA 3

RESULT 8
AX759065
LOCUS AX759065
DEFINITION Sequence 2386 from Patent WO03040369.
ACCESSION AX759065
VERSION AX759065.1 GI:32253681
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Telerman, A., Anson, R. and Tuijnder, M.
TITLE Sequences involved in tumoral suppression, tumoral reversion, apoptosis and/or viral resistance phenomena and their use as medicines
JOURNAL Patent: WO 03040369-A 2386 15-MAY-2003;
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source Location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN
Query Match 59.0%; Score 11.8; DB 6; Length 17;
Best Local Similarity 86.7%; Pred. No. 1.1e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTC 15
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Db 1 GATCACATAGACTTCTC 15

RESULT 9
A65727
LOCUS A65727
DEFINITION Sequence 8 from Patent WO9735973.
PAT 29-MAR-1999
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ACCESSION      A65727
VERSION        A65727.1  GI:4531346
SOURCE         unidentified
ORGANISM       unidentified
REFERENCE      1
AUTHORS        Lenzen,G., Pietri-Rouxel,F., Drumare, Marie-Francoise and
               Strosberg,A.D. AND beta 3-ADRENERGIC RECEPTORS AND USE THEREOF
TITLE          CANINE beta 2- AND beta 3-ADRENERGIC RECEPTORS AND USE THEREOF
JOURNAL        VETGEN (FR)
COMMENT        Patent: WO 9735973-A 8 02-OCT-1997;
               Other publication FR 2746813 19971003.
FEATURES       source
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Best Local Similarity 86.7%; Pred. No. 1.1e+05;
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QY            3 CCGCATAGACTTCTC 17
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Db            3 CCGCAGAGCGTCTC 17
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RESULT 10
AR048183/c    AR048183          18 bp  DNA  linear  PAT 29-SEP-1999
LOCUS         Sequence 1 from patent US 5821062.
DEFINITION    AR048183
ACCESSION     AR048183
VERSION       AR048183.1  GI:5970526
KEYWORDS      Unknown.
SOURCE        Unknown.
ORGANISM      Unclassified.
REFERENCE      1 (bases 1 to 18)
AUTHORS        Komai,K., Kaneko,H. and Nakatsuka,I.
TITLE          Oligonucleotide for use in checking presence or absence of mutation
               in human-derived cytochrome P450IIC18 gene
JOURNAL        Patent: US 5821062-A 1 13-OCT-1998;
               Location/Qualifiers
FEATURES       source
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Query Match   59.0%; Score 11.8; DB 6; Length 18;
Best Local Similarity 86.7%; Pred. No. 1.1e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY            6 CATAGACTTCTCAGA 20
              ||||| ||||| |||
Db            16 CATAGACTTTTGAGA 2
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RESULT 11
E10136/c     E10136          18 bp  DNA  linear  PAT 29-SEP-1997
LOCUS         PCR primer to amplify mutated genes encoding human cytochrome
DEFINITION    P450IIC18.
ACCESSION     E10136
VERSION       E10136.1  GI:22026764
KEYWORDS      JP 1995285987-A/1.
SOURCE        unidentified
ORGANISM      unidentified.
REFERENCE      1 (bases 1 to 18)
AUTHORS        Komai,K., Kaneko,H. and Nakatsuka,I.
TITLE          OLIGONUCLEOTIDE FOR AMPLIFYING MUTATION TYPE GENE OF HUMAN DERIVED
CYTOCHROME P450IIC18
Patent: JP 1995285987-A 1 31-OCT-1995;
SUMITOMO CHEM CO LTD
OS            None
COMMENT       OC Artificial sequences.
               PN JP 1995285987-A/1
               PD 31-OCT-1995
               PF 29-MAR-1994 JP 1994059386
               PI KOMAI KOICHIRO, KANEKO HIDEO, NAKATSUKA IWAO
               PC C07H21/04,C12Q1/68//C12N15/09;
               CC strandedness: Single;
               CC topology: Linear;
               FH Key
               FH Location/Qualifiers
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ORIGIN
Query Match   59.0%; Score 11.8; DB 6; Length 18;
Best Local Similarity 86.7%; Pred. No. 1.1e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY            6 CATAGACTTCTCAGA 20
              ||||| ||||| |||
Db            16 CATAGACTTTTGAGA 2
              ||||| ||||| |||
RESULT 12
AR023697      AR023697          20 bp  DNA  linear  PAT 05-DEC-1998
LOCUS         Sequence 8 from patent US 5795722.
DEFINITION    AR023697
ACCESSION     AR023697
VERSION       AR023697.1  GI:3976991
KEYWORDS      Unknown.
SOURCE        Unknown.
ORGANISM      Unclassified.
REFERENCE      1 (bases 1 to 20)
AUTHORS        Lacroix,J.-M. and Dunn,J.M.
TITLE          Method and kit for quantitation and nucleic acid sequencing of
               nucleic acid analytes in a sample
JOURNAL        Patent: US 5795722-A 8 18-AUG-1998;
               Location/Qualifiers
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Query Match   59.0%; Score 11.8; DB 6; Length 20;
Best Local Similarity 86.7%; Pred. No. 1.1e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY            5 GCATAGACTTCTCAG 19
              ||||| ||||| |||
Db            3 GCATRAACTTCTGAG 17
              ||||| ||||| |||
RESULT 13
AX207008/c    AX207008          19 bp  DNA  linear  PAT 30-AUG-2001
LOCUS         Sequence 31 from Patent WO0155214.
DEFINITION    AX207008
ACCESSION     AX207008
VERSION       AX207008.1  GI:15394779
KEYWORDS      Homo sapiens (human)
SOURCE        Homo sapiens
ORGANISM      Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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REFERENCE 1
AUTHORS Whittaker,P.A., Jones,S.J. and Hanley,M.T.
TITLE Disease-associated gene
JOURNAL Patent: WO 0155214-A 31.02-AUG-2001;
FEATURES
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Query Match 58.0%; Score 11.6; DB 6; Length 19;
Best Local Similarity 77.8%; Pred. No. 1.5e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GACGGCATAGACTTCTCA 18
Db 18 GACGGCAGCGACATCTCA 1
RESULT 14
AX353519
LOCUS AX353519 20 bp DNA linear PAT 06-FEB-2002
DEFINITION Sequence 51 from Patent WO0204636.
ACCESSION AX353519
VERSION AX353519.1 GI:18618594
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS van Roy,P., Goossens,S., Janssens,B. and Vanpoucke,G.
TITLE Novel_g(a) expressed in heart and testis
JOURNAL Patent: WO 0204636-A 31.17-JAN-2002;
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Query Match 58.0%; Score 11.6; DB 6; Length 20;
Best Local Similarity 77.8%; Pred. No. 1.5e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GACGGCATAGACTTCTCA 18
Db 2 GACTGNACAGGCTTCTCA 19
RESULT 15
I61735
LOCUS I61735 15 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 289 from patent US 5658780.
ACCESSION I61735
VERSION I61735.1 GI:2479683
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 15)
AUTHORS Stinchcomb,D.T., Draper,K.G. and McSwiggen,J.
TITLE Rel a targeted ribozymes
JOURNAL Patent: US 5658780-A 289 19-AUG-1997;
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Db 13 ATAGAACTTCTCAG 1
Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 7 ATAGACTTCTCAG 19
Db 1 ATGGACTTCTCAG 13
RESULT 16
AX636229
LOCUS AX636229 15 bp RNA linear PAT 21-FEB-2003
DEFINITION Sequence 3368 from Patent EP1260586.
ACCESSION AX636229
VERSION AX636229.1 GI:28471843
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
unclassified.
REFERENCE 1
AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Direnzo,A., Karpeisky,A., Draper,K.G., Kisich,K., Matulic-Adamic,J., McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M., Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and Woolf,I.
TITLE Method and reagent for inhibiting the expression of disease related genes
JOURNAL Patent: EP 1260586-A 3368 27-NOV-2002;
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Best Local Similarity 92.3%; Pred. No. 1.9e+05;
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QY 7 ATAGACTTCTCAG 19
Db 1 ATGGACTTCTCAG 13
RESULT 17
AR111392/c
LOCUS AR111392 17 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 4 from patent US 6127133.
ACCESSION AR111392
VERSION AR111392.1 GI:12828240
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Akong,M.Anthony., Harpold,M.Miller., Velicelabi,G. and Brust,P.
TITLE Automated analysis equipment and assay method for detecting cell surface protein function using same
JOURNAL Patent: US 6127133-A 4 03-OCT-2000;
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Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 7 ATAGACTTCTCAG 19
Db 13 ATAGAACTTCTCAG 1

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RESULT 18  
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 LOCUS  
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 ACCESSION AR364674  
 VERSION AR364674.1 GI:34427598  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 17)  
 AUTHORS Harpold,M.M. and Brust,P.  
 TITLE Assay methods and compositions useful for measuring the transduction of an intracellular signal  
 JOURNAL Patent: US 5401629-A 5 28-MAR-1995;  
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 Best Local Similarity 92.3%; Pred. No. 1.9e+05;  
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 QY 7 ATAGACTTCTCAG 19  
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 Db 13 ATAGAATTCTCAG 1  
 RESULT 19  
 AX734698/c  
 LOCUS  
 DEFINITION Sequence 288 from Patent WO03025177.  
 ACCESSION AX734698  
 VERSION AX734698.1 GI:30513975  
 KEYWORDS  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Telesman,A., Anson,R. and Thijnder,M.  
 TITLE Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses and the use thereof as medicaments  
 JOURNAL Patent: WO 03025177-A 288 27-MAR-2003;  
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 Best Local Similarity 92.3%; Pred. No. 1.9e+05;  
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 Db 15 TAGAGTTCTCAGA 3  
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 AX130020/c  
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 DEFINITION Sequence 1238 from Patent WO0130362.  
 ACCESSION AX130020  
 VERSION AX130020.1 GI:14136325  
 KEYWORDS  
 SOURCE Homo sapiens (human)

ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Robbins,J.M. and Tritz,R.  
 TITLE Ribozyme therapy for the treatment of proliferative skin and eye diseases  
 JOURNAL Patent: WO 0130362-A 1238 03-MAY-2001;  
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 Query Match 57.0%; Score 11.4; DB 6; Length 19;  
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 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 5 GCATAGACTTCTC 17  
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 Db 15 GCATATACTTCTC 3  
 RESULT 21  
 AX130021/c  
 LOCUS  
 DEFINITION Sequence 1239 from Patent WO0130362.  
 ACCESSION AX130021  
 VERSION AX130021.1 GI:14136326  
 KEYWORDS  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Robbins,J.M. and Tritz,R.  
 TITLE Ribozyme therapy for the treatment of proliferative skin and eye diseases  
 JOURNAL Patent: WO 0130362-A 1239 03-MAY-2001;  
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 Query Match 57.0%; Score 11.4; DB 6; Length 19;  
 Best Local Similarity 92.3%; Pred. No. 1.9e+05;  
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 5 GCATAGACTTCTC 17  
 ||||| |||||  
 Db 13 GCATATACTTCTC 1  
 RESULT 22  
 AX269412  
 LOCUS  
 DEFINITION Sequence 43 from Patent WO0164876.  
 ACCESSION AX269412  
 VERSION AX269412.1 GI:16542188  
 KEYWORDS  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Stefansson,H., Steinhorsdottir,V. and Gulcher,J.R.

```

TITLE      Human schizophrenia gene
JOURNAL    Patent: WO 0164876-A 43 07-SEP-2001;
           Decode Genetics EHP. (IS)
FEATURES   source
           Location/Qualifiers
             1..20
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

ORIGIN
Query Match      57.0%; Score 11.4; DB 6; Length 20;
Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      5 GCATAGACTTCTC 17
Db      6 GCATAGATTCTC 18
        |||||
        |||||

RESULT 23
AX270943
LOCUS      AX270943      20 bp      DNA      linear      PAT 30-NOV-2001
DEFINITION Sequence 43 from Patent WO0164877.
ACCESSION AX270943
VERSION   AX270943.1 GI:16543680
KEYWORDS  .
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS   Stefansson,H., Steinchoradottir,V. and Gulcher,J.R.
TITLE     Human schizophrenia gene
JOURNAL   Patent: WO 0164877-A 43 07-SEP-2001;
           Decode Genetics EHP. (IS)
FEATURES   source
           Location/Qualifiers
             1..20
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               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

ORIGIN
Query Match      57.0%; Score 11.4; DB 6; Length 20;
Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      5 GCATAGACTTCTC 17
Db      6 GCATAGATTCTC 18
        |||||
        |||||

RESULT 24
AX292962
LOCUS      AR292962      18 bp      DNA      linear      PAT 12-JUN-2003
DEFINITION Sequence 4697 from patent US 6537751.
ACCESSION AR292962
VERSION   AR292962.1 GI:31680246
KEYWORDS  .
SOURCE    Unknown.
ORGANISM  Unclassified.
           1 (bases 1 to 18)
REFERENCE  1 (bases 1 to 18)
AUTHORS   Cohen,D., Chumakov,I. and Blumenfeld,M.
TITLE     Biallelic markers for use in constructing a high density
           disequilibrium map of the human genome
JOURNAL   Patent: US 6537751-A 4697 25-MAR-2003;
           Decode Genetics EHP. (IS)
FEATURES   source
           Location/Qualifiers
             1..18
               /organism="unknown"
               /mol_type="genomic DNA"

ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 18;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      2 ACGCATAGACTTCTC 17
Db      4 ACTGCAGGACTTCTC 19
        |||||
        |||||

TITLE      Human schizophrenia gene
JOURNAL    Patent: WO 0164876-A 43 07-SEP-2001;
           Decode Genetics EHP. (IS)
FEATURES   source
           Location/Qualifiers
             1..20
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               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

ORIGIN
Query Match      57.0%; Score 11.4; DB 6; Length 20;
Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      5 GCATAGACTTCTC 17
Db      6 GCATAGATTCTC 18
        |||||
        |||||

RESULT 25
AX378663/c
LOCUS      AX378663      19 bp      DNA      linear      PAT 18-MAR-2002
DEFINITION Sequence 452 from Patent WO0206525.
ACCESSION AX378663
VERSION   AX378663.1 GI:19574516
KEYWORDS  .
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1
AUTHORS   Cohen,D., Blumenfeld,M., Chumakov,I., Abderrahim,H. and Bihain,B.
TITLE     Obesity associated biallelic marker maps
JOURNAL   Patent: WO 0206525-A 452 24-JAN-2002;
           GENSET (FR)
FEATURES   source
           Location/Qualifiers
             1..19
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"
           primer_bind
             1..19
               /note="downstream amplification primer 99-48212 for SEQ
               110, in complement"

ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 19;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      5 GCATAGACTTCTCAGA 20
Db      17 GCATAAAGTCTCTGA 2
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        |||||

RESULT 26
AR072310
LOCUS      AR072310      20 bp      DNA      linear      PAT 28-AUG-2000
DEFINITION Sequence 113 from patent US 5948611.
ACCESSION AR072310
VERSION   AR072310.1 GI:9999074
KEYWORDS  .
SOURCE    Unknown.
ORGANISM  Unclassified.
           1 (bases 1 to 20)
REFERENCE  1 (bases 1 to 20)
AUTHORS   Prockop,D.J., Ala-Kokko,L., Williams,C.J., Ritvaniemi,P.,
           Baldwin,C., Hopkinson,I. and Ahmad,N.Nina.
TITLE     Primers and methods for detecting mutations in the procollagen II
           gene (COL2A1) that indicate a genetic predisposition for a
           COL2A1-associated disease
JOURNAL   Patent: US 5948611-A 113 07-SEP-1999;
           Decode Genetics EHP. (IS)
FEATURES   source
           Location/Qualifiers
             1..20
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               /mol_type="unassigned DNA"

ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      2 ACGCATAGACTTCTC 17
Db      4 ACTGCAGGACTTCTC 19
        |||||
        |||||

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```
RESULT 27
AR123092/c
LOCUS      AR123092      20 bp      DNA      linear      PAT 16-MAY-2001
DEFINITION Sequence 36 from patent US 6168950.
ACCESSION  AR123092
VERSION     AR123092.1  GI:14108058
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 20)
AUTHORS    Monia,B.P., Gaarde,W., Ward,D.T. and Cowseert,L.M.
TITLE      Antisense modulation of MEK1 expression
JOURNAL    Patent: US 6168950-A 36 02-JAN-2001;
FEATURES   Location/Qualifiers
            source
            1..20
            /organism="unknown"
            /mol_type="unassigned DNA"
ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      5 GCATAGACTTCTCAGA 20
        |||||
        19 GCATAGACTTCAGGA 4

RESULT 28
CQ770343
LOCUS      CQ770343      20 bp      DNA      linear      PAT 04-MAR-2004
DEFINITION Sequence 14 from Patent WO2004009842.
ACCESSION  CQ770343
VERSION     CQ770343.1  GI:45125013
KEYWORDS
SOURCE      Rattus sp.
ORGANISM    Rattus sp.
REFERENCE   1
AUTHORS    Larsen,L.K., Vrang,N. and Larsen,P.J.
TITLE      Methods for identifying genes related to malfunctions of the
JOURNAL    central nervous system
JOURNAL    Patent: WO 2004009842-A 14 29-JAN-2004;
FEATURES   Rheoscience A/S (DK)
            Location/Qualifiers
            source
            1..20
            /organism="Rattus sp."
            /mol_type="unassigned DNA"
            /db_xref="taxon:10118"
ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 ACCGCATAGACTTCTC 17
        |||||
        5 ACCGCACAGCCTTGTC 20

RESULT 29
I26421
LOCUS      I26421      20 bp      DNA      linear      PAT 07-OCT-1996
DEFINITION Sequence 113 from patent US 5558988.
ACCESSION  I26421
VERSION     I26421.1  GI:1606291
KEYWORDS
SOURCE      Unknown.

RESULT 30
AR313207/c
LOCUS      AR313207      20 bp      DNA      linear      PAT 12-JUN-2003
DEFINITION Sequence 3744 from patent US 6559294.
ACCESSION  AR313207
VERSION     AR313207.1  GI:31706633
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 20)
AUTHORS    Griffais,R., Hoiabeth,S.K., Zagursky,R.J., Metcalf,B.J., Peek,J.A.,
TITLE      Sankaran,B. and Fletcher,L.D.
JOURNAL    Chlamydia pneumoniae polynucleotides and uses thereof
JOURNAL    Patent: US 6559294-A 3744 06-MAY-2003;
FEATURES   Location/Qualifiers
            source
            1..20
            /organism="unknown"
            /mol_type="genomic DNA"
ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 ACCGCATAGACTTCTC 17
        |||||
        20 ATCTCAGAGACTTCTC 5

RESULT 31
AR359611/c
LOCUS      AR359611      20 bp      DNA      linear      PAT 17-AUG-2003
DEFINITION Sequence 204 from patent US 6593305.
ACCESSION  AR359611
VERSION     AR359611.1  GI:33766334
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 20)
AUTHORS    Wright,J.A.
TITLE      Antitumor antisense sequences directed against R1 and R2 components
JOURNAL    of ribonucleotide reductase
JOURNAL    Patent: US 6593305-A 204 15-JUL-2003;
FEATURES   Location/Qualifiers
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            1..20
            /organism="unknown"
            /mol_type="genomic DNA"
ORIGIN
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Query Match
Best Local Similarity 56.0%; Score 11.2; DB 6; Length 20;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 CGCAGACTTCTCAG 19
Db 20 CGCAGACTTCTCAG 5

RESULT 32
AR559459/c
LOCUS AR559459 20 bp DNA linear PAT 08-OCT-2004
DEFINITION Sequence 28 from patent US 6750019.
ACCESSION AR559459
VERSION AR559459.1 GI:53968875
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Freier,S.M.
TITLE Antisense modulation of insulin-like growth factor binding protein
JOURNAL 5 expression
FEATURES
source
Location/Qualifiers
1..20
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN
Query Match 56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GACCGCATGACTTCT 16
Db 17 GACCGCATGACTTCT 2

RESULT 33
AR559854/c
LOCUS AR559854 20 bp DNA linear PAT 26-OCT-2001
DEFINITION Sequence 81 from Patent WO0172822.
ACCESSION AR559854
VERSION AR559854.1 GI:16508928
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Hugot,J.P., Thomas,G., Zouali,M., Lesage,S. and Chamaillard,M.
TITLE Genes involved in intestinal inflammatory diseases and use thereof
JOURNAL Patent: WO 0172822-A 81 04-OCT-2001;
Fondation Jean Dausset-Ceph (FR)
FEATURES
source
Location/Qualifiers
1..20
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GACCGCATGACTTCT 16
Db 17 GACCGCATGACTTCT 2

RESULT 34
AR559855/c
LOCUS AR559855 20 bp DNA linear PAT 26-OCT-2001
DEFINITION Sequence 82 from Patent WO0172822.
ACCESSION AR559855
VERSION AR559855.1 GI:16508929
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Hugot,J.P., Thomas,G., Zouali,M., Lesage,S. and Chamaillard,M.
TITLE Genes involved in intestinal inflammatory diseases and use thereof
JOURNAL Patent: WO 0172822-A 82 04-OCT-2001;
Fondation Jean Dausset-Ceph (FR)
FEATURES
source
Location/Qualifiers
1..20
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTCAGA 20
Db 17 GCAGGCGCTTCTCAGA 2

RESULT 35
BD254799
LOCUS BD254799 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD254799
VERSION BD254799.1 GI:33064569
KEYWORDS JP 2002541795-A/2592.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 2592 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT
OS Eukaryote
PN JP 2002541795-A/2592
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC
C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
Key Location/Qualifiers
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FEATURES
source
Location/Qualifiers
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ORIGIN
Query Match 55.0%; Score 11; DB 6; Length 17;
Best Local Similarity 100.0%; Pred. No. 3.3e+05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 10 GACTTCTCAGA 20  
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 Db 5 GACTTCTCAGA 15

RESULT 36  
 BD254800  
 LOCUS 17 bp DNA linear PAT 17-JUL-2003  
 DEFINITION Regulation of repressor genes using nucleic acid molecules.  
 ACCESSION BD254800  
 VERSION BD254800.1 GI:33064570  
 KEYWORDS JP 2002541795-A/2593.  
 SOURCE unidentified  
 ORGANISM unidentified

REFERENCE 1 (bases 1 to 17)  
 AUTHORS Blatt, L., Zwick, M., Pavco, P. and McSwiggen, J.  
 TITLE Regulation of repressor genes using nucleic acid molecules  
 JOURNAL Patent: JP 2002541795-A 2593 10-DEC-2002;  
 RIBOZYME PHARMACEUTICALS INC

COMMENT OS Eukaryote  
 PN JP 2002541795-A/2593  
 PD 10-DEC-2002  
 PF 11-APR-2000 JP 2000611654  
 PR 12-APR-1999 US 60/129390  
 PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC  
 C12N15/09, A61K38/00, A61K48/00, A61P43/00, A61P43/00, C12N5/10, PC  
 C12P21/02,  
 PC  
 C12P21/02, C12P21/02//A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC  
 C12R1:91),  
 PC (C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,  
 PC A61K37/02, C12R1:91)  
 CC Regulation of repressor genes using nucleic acid molecules FH  
 KEY Location/Qualifiers  
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 FT /organism='Eukaryote'.  
 FEATURES source  
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 /mol\_type='genomic DNA'  
 /db\_xref='taxon:32644'

ORIGIN  
 Query Match 55.0%; Score 11; DB 6; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 3.3e+05;  
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 10 GACTTCTCAGA 20  
 |||||||  
 Db 2 GACTTCTCAGA 12

RESULT 38  
 AX110604  
 LOCUS 17 bp DNA linear PAT 29-MAY-2002  
 DEFINITION Sequence 1337 from Patent WO0123604.  
 ACCESSION AX110604  
 VERSION AX110604.1 GI:13926896  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM other sequences; artificial sequences.  
 REFERENCE 1  
 AUTHORS Bergeron, M.G., Boissinot, M., Huletsky, A., m Nard, C., Quellet, M.,  
 Picard, F.J. and Roy, P.H.  
 TITLE Highly conserved genes and their use to generate probes and primers  
 JOURNAL for detection of microorganisms  
 Patent: WO 0123604-A 1337 05-APR-2001;  
 Infectio Diagnostic (I.D.I.) INC. (CA)  
 FEATURES Location/Qualifiers  
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 /organism='synthetic construct'  
 /mol\_type='unassigned DNA'  
 /db\_xref='taxon:32630'  
 /note='Oligonucleotide'

ORIGIN  
 Query Match 55.0%; Score 11; DB 6; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 3.3e+05;  
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 9 AGACTTCTCAG 19  
 |||||||  
 Db 4 AGACTTCTCAG 14

RESULT 39  
 AR567503/c  
 LOCUS 18 bp DNA linear PAT 08-OCT-2004  
 DEFINITION Sequence 32 from patent US 6780609.  
 ACCESSION AR567503  
 VERSION AR567503.1 GI:53985285  
 KEYWORDS  
 SOURCE Unknown.

PF 11-APR-2000 JP 2000611654  
 PR 12-APR-1999 US 60/129390  
 PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC  
 C12N15/09, A61K38/00, A61K48/00, A61P43/00, A61P43/00, C12N5/10, PC  
 C12P21/02,  
 PC  
 C12P21/02, C12P21/02//A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC  
 C12R1:91),  
 PC (C12P21/02, C12R1:91), (C12P21/02, C12R1:91), C12N15/00, C12N5/00,  
 PC A61K37/02, C12R1:91)  
 CC Regulation of repressor genes using nucleic acid molecules FH  
 KEY Location/Qualifiers  
 FT source 1..17  
 FT /organism='Eukaryote'.  
 FEATURES source  
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 /organism='unidentified'  
 /mol\_type='genomic DNA'  
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ORIGIN  
 Query Match 55.0%; Score 11; DB 6; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 3.3e+05;  
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 10 GACTTCTCAGA 20  
 |||||||  
 Db 2 GACTTCTCAGA 12

RESULT 38  
 AX110604  
 LOCUS 17 bp DNA linear PAT 29-MAY-2002  
 DEFINITION Sequence 1337 from Patent WO0123604.  
 ACCESSION AX110604  
 VERSION AX110604.1 GI:13926896  
 KEYWORDS synthetic construct  
 SOURCE synthetic construct  
 ORGANISM other sequences; artificial sequences.  
 REFERENCE 1  
 AUTHORS Bergeron, M.G., Boissinot, M., Huletsky, A., m Nard, C., Quellet, M.,  
 Picard, F.J. and Roy, P.H.  
 TITLE Highly conserved genes and their use to generate probes and primers  
 JOURNAL for detection of microorganisms  
 Patent: WO 0123604-A 1337 05-APR-2001;  
 Infectio Diagnostic (I.D.I.) INC. (CA)  
 FEATURES Location/Qualifiers  
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 /mol\_type='unassigned DNA'  
 /db\_xref='taxon:32630'  
 /note='Oligonucleotide'

ORIGIN  
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 Best Local Similarity 100.0%; Pred. No. 3.3e+05;  
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 9 AGACTTCTCAG 19  
 |||||||  
 Db 4 AGACTTCTCAG 14

RESULT 39  
 AR567503/c  
 LOCUS 18 bp DNA linear PAT 08-OCT-2004  
 DEFINITION Sequence 32 from patent US 6780609.  
 ACCESSION AR567503  
 VERSION AR567503.1 GI:53985285  
 KEYWORDS  
 SOURCE Unknown.



ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Carulli,J.P., Little,R.D., Recker,R.R. and Johnson,M.L.  
TITLE High bone mass gene of 11q13.3  
JOURNAL Patent: US 6780609-A 32 24-AUG-2004;  
FEATURES Location/Qualifiers  
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/organism="unknown"  
/mol\_type="genomic DNA"

ORIGIN

Query Match 55.0%; Score 11; DB 6; Length 18;  
Best Local Similarity 100.0%; Pred. No. 3.3e+05;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 10 GACTTCTCAGA 20  
|||||  
Db 17 GACTTCTCAGA 7

RESULT 40  
AX277553/c  
LOCUS AX277553 18 bp DNA linear PAT 01-NOV-2001  
DEFINITION Sequence 32 from Patent WO0177327.  
ACCESSION AX277553  
VERSION AX277553.1 GI:16604752  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Carulli,J.P., Little,R.D., Recker,R.R. and Johnson,M.L.  
TITLE The high bone mass gene of 11q13.3  
JOURNAL Patent: WO 0177327-A 32 18-OCT-2001;  
Genome Therapeutics Corporation (US)  
FEATURES Location/Qualifiers  
source 1..18  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="Artificial sequence is a primer."

ORIGIN

Query Match 55.0%; Score 11; DB 6; Length 18;  
Best Local Similarity 100.0%; Pred. No. 3.3e+05;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 10 GACTTCTCAGA 20  
|||||  
Db 17 GACTTCTCAGA 7

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Job time : 1586 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 10:07:08 ; Search time 238 Seconds  
(without alignments)  
497.457 Million cell updates/sec

Title: US-09-743-825-10

Perfect score: 20

Sequence: 1 gaccgcgatgactcttcaga 20

Scoring table: IDENTITY\_NUC

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Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 2207178

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

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2: Geneseqn1990s:\*

3: Geneseqn2000s:\*

4: Geneseqn2001as:\*

5: Geneseqn2001bs:\*

6: Geneseqn2002as:\*

7: Geneseqn2002bs:\*

8: Geneseqn2003as:\*

9: Geneseqn2003bs:\*

10: Geneseqn2003cs:\*

11: Geneseqn2003ds:\*

12: Geneseqn2004as:\*

13: Geneseqn2004bs:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description        |
|------------|-------|-------------|--------|----|--------------------|
| 1          | 20    | 100.0       | 20     | 3  | Aaz50446 Human PB3 |
| 2          | 13.8  | 69.0        | 20     | 2  | Aax93486 PCR prime |
| 3          | 13.2  | 66.0        | 20     | 10 | Aad62200 Human hae |
| 4          | 12.6  | 63.0        | 20     | 13 | Adt00440 Novel mut |
| 5          | 12.4  | 62.0        | 17     | 8  | Aca08287 Necrosis  |
| 6          | 12.4  | 62.0        | 17     | 8  | Aca06680 NFkB sub- |
| 7          | 12.2  | 61.0        | 18     | 3  | Aaz48549 Human TNF |
| 8          | 12.2  | 61.0        | 18     | 6  | Abt05045 TNFR1 exp |
| 9          | 12.2  | 61.0        | 18     | 13 | Adr06077 Human TNF |
| 10         | 12.2  | 61.0        | 19     | 10 | Adg73193 Pseudomon |
| 11         | 12.2  | 61.0        | 19     | 10 | Adl12249 Pseudomon |
| 12         | 12.2  | 61.0        | 20     | 12 | Adi79866 Mouse HMG |
| 13         | 12.2  | 61.0        | 20     | 12 | Adi79673 Mouse HMG |
| 14         | 12    | 60.0        | 20     | 2  | Aaq32840 Microbate |
| 15         | 12    | 60.0        | 20     | 2  | Aaq57863 Primer pa |
| 16         | 12    | 60.0        | 20     | 2  | Aaz21763 Exemplary |
| 17         | 12    | 60.0        | 20     | 3  | Aac60963 TATA box- |
| 18         | 11.8  | 59.0        | 17     | 10 | Adb42063 Tumour su |
| 19         | 11.8  | 59.0        | 17     | 10 | Adi48431 Human tum |
| 20         | 11.8  | 59.0        | 18     | 2  | Aaq94315 Human cyt |

|    |    |           |      |      |    |
|----|----|-----------|------|------|----|
| 18 | 2  | AAV30475  | 59.0 | 11.8 | 21 |
| 20 | 2  | AAV33985  | 59.0 | 11.8 | 22 |
| 20 | 3  | AAZ24116  | 59.0 | 11.8 | 23 |
| 20 | 10 | ABZ91284  | 59.0 | 11.8 | 24 |
| 20 | 11 | ABD27514  | 59.0 | 11.8 | 25 |
| 19 | 4  | ADL11750  | 58.0 | 11.6 | 26 |
| 20 | 6  | ABK41518  | 58.0 | 11.6 | 27 |
| 20 | 6  | ABS59713  | 58.0 | 11.6 | 28 |
| 20 | 12 | ADK78853  | 58.0 | 11.6 | 29 |
| 20 | 12 | ADK78455  | 58.0 | 11.6 | 30 |
| 20 | 12 | ADK78852  | 58.0 | 11.6 | 31 |
| 15 | 2  | AAT55168  | 57.0 | 11.4 | 32 |
| 17 | 8  | ACA09062  | 57.0 | 11.4 | 33 |
| 17 | 10 | ADI47785  | 57.0 | 11.4 | 34 |
| 19 | 3  | AAA83653  | 57.0 | 11.4 | 35 |
| 19 | 3  | AAH83652  | 57.0 | 11.4 | 36 |
| 19 | 5  | AAH58814  | 57.0 | 11.4 | 37 |
| 19 | 5  | AAH58815  | 57.0 | 11.4 | 38 |
| 19 | 12 | ADQ61886  | 57.0 | 11.4 | 39 |
| 20 | 2  | AAH77133  | 57.0 | 11.4 | 40 |
| 20 | 4  | AAK95244  | 57.0 | 11.4 | 41 |
| 20 | 4  | AAO08232  | 57.0 | 11.4 | 42 |
| 20 | 4  | AAO08233  | 57.0 | 11.4 | 43 |
| 20 | 4  | AAK96737  | 57.0 | 11.4 | 44 |
| 20 | 6  | ABT00014  | 57.0 | 11.4 | 45 |
| 20 | 6  | ABT01507  | 57.0 | 11.4 | 46 |
| 20 | 12 | ADI29181  | 57.0 | 11.4 | 47 |
| 20 | 12 | ADI29115  | 57.0 | 11.4 | 48 |
| 20 | 12 | ADH77528  | 57.0 | 11.4 | 49 |
| 20 | 12 | ADK95401  | 57.0 | 11.4 | 50 |
| 20 | 12 | ADP43749  | 57.0 | 11.4 | 51 |
| 17 | 8  | ACC74121  | 56.0 | 11.2 | 52 |
| 17 | 8  | ACC74122  | 56.0 | 11.2 | 53 |
| 17 | 10 | ADB89105  | 56.0 | 11.2 | 54 |
| 17 | 10 | ADC24452  | 56.0 | 11.2 | 55 |
| 17 | 10 | ADD67722  | 56.0 | 11.2 | 56 |
| 17 | 10 | ADE10435  | 56.0 | 11.2 | 57 |
| 17 | 10 | ADB11357  | 56.0 | 11.2 | 58 |
| 17 | 10 | ADB112535 | 56.0 | 11.2 | 59 |
| 17 | 10 | ADB12298  | 56.0 | 11.2 | 60 |
| 17 | 10 | ADG25432  | 56.0 | 11.2 | 61 |
| 17 | 10 | ADJ47831  | 56.0 | 11.2 | 62 |
| 17 | 10 | ADJ61852  | 56.0 | 11.2 | 63 |
| 17 | 11 | ADP70598  | 56.0 | 11.2 | 64 |
| 17 | 12 | ADF56265  | 56.0 | 11.2 | 65 |
| 17 | 12 | ADG43293  | 56.0 | 11.2 | 66 |
| 17 | 12 | ADG43550  | 56.0 | 11.2 | 67 |
| 17 | 12 | ADG68614  | 56.0 | 11.2 | 68 |
| 17 | 12 | ADH56754  | 56.0 | 11.2 | 69 |
| 17 | 12 | ADI12846  | 56.0 | 11.2 | 70 |
| 17 | 12 | ADI27748  | 56.0 | 11.2 | 71 |
| 17 | 12 | ADK51551  | 56.0 | 11.2 | 72 |
| 17 | 12 | ADM18033  | 56.0 | 11.2 | 73 |
| 17 | 12 | ADL2631   | 56.0 | 11.2 | 74 |
| 17 | 12 | ADM46269  | 56.0 | 11.2 | 75 |
| 18 | 3  | AAZ70341  | 56.0 | 11.2 | 76 |
| 19 | 6  | ABK41204  | 56.0 | 11.2 | 77 |
| 19 | 6  | ABK41204  | 56.0 | 11.2 | 78 |
| 20 | 2  | AAZ02195  | 56.0 | 11.2 | 79 |
| 20 | 2  | AAZ94418  | 56.0 | 11.2 | 80 |
| 20 | 3  | AAA90858  | 56.0 | 11.2 | 81 |
| 20 | 4  | AAI5670   | 56.0 | 11.2 | 82 |
| 20 | 4  | AAI5670   | 56.0 | 11.2 | 83 |
| 20 | 4  | AAI5669   | 56.0 | 11.2 | 84 |
| 20 | 8  | AAI5669   | 56.0 | 11.2 | 85 |
| 20 | 8  | AAI5669   | 56.0 | 11.2 | 86 |
| 20 | 10 | ACE58321  | 56.0 | 11.2 | 87 |
| 20 | 10 | ABZ86038  | 56.0 | 11.2 | 88 |
| 20 | 10 | ABZ82699  | 56.0 | 11.2 | 89 |
| 20 | 10 | ACC47852  | 56.0 | 11.2 | 90 |
| 20 | 11 | ABD22268  | 56.0 | 11.2 | 91 |
| 20 | 12 | ADI56702  | 56.0 | 11.2 | 92 |
| 20 | 12 | ADL88532  | 56.0 | 11.2 | 93 |

94 11.2 56.0 20 12 ADL27440 PCR prime  
 AAZ50446 Aaf02601 Hammerhea  
 95 11 55.0 17 3 AAF02601  
 96 11 55.0 17 3 AAF02603 Hammerhea  
 97 11 55.0 17 3 AAF02602  
 Aah01346 parC res1  
 98 11 55.0 17 4 AAH01346  
 99 11 55.0 18 5 ABA82646 Human Zma  
 C 100 11 55.0 18 5 ABA82604

## ALIGNMENTS

RESULT 1  
 ID AAZ50446 standard; DNA; 20 BP.  
 XX AAZ50446;  
 AC  
 XX 18-MAY-2000 (first entry)  
 XX  
 DE Human PB39 specific 3' RACE primer.  
 XX  
 KW PB39; human; prostate cancer; PC; chromosome 11p11.1-11.2; cancer;  
 KW prostate epithelium; splicing mechanism; early diagnosis; progression;  
 KW precancerous cell; metastatic potential; non-neoplastic prostate disease;  
 KW expressed sequence tag; EST; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200005376-A1.  
 XX  
 PD 03-FEB-2000.  
 XX  
 PF 23-JUL-1999; 99WO-US016831.  
 XX  
 PR 24-JUL-1998; 98US-0094137P.  
 XX  
 PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 XX  
 PI Chuaqui RF, Cole KA, Liotta LA;  
 DR WPI; 2000-182700/16.  
 XX  
 PT Novel gene which is dysregulated in prostate cancer useful for diagnosing  
 PT cancer.  
 XX  
 PS Claim 5; Page 18; 51pp; English.  
 XX  
 CC The present sequence is the human PB39 3' specific RACE primer, from EST  
 CC clone AAR00504. It is used to determine the complete nucleotide sequence  
 CC of PB39 cDNA, isolated from human pancreas cDNA library using RACE. The  
 CC PB39 gene that is dysregulated in prostate cancer has homology to the EST  
 CC AAR00504. PB39 gene is located on chromosome 11p11.1-11.2. Abnormally  
 CC high concentrations of PB39 are found in prostate tissue derived from  
 CC prostate cancer (PC) epithelium. PB39 sequence is useful for detection of  
 CC precancerous or cancer cells in the prostate. PB39 is useful for early  
 CC diagnosis of the progression of prostate cancer, especially in aggressive  
 CC prostate carcinoma. It can also distinguish PC from other non-neoplastic  
 CC prostate disease. The diagnostic method is selective and specific for  
 CC various types of PC and also facilitates identifying prostate cancer of  
 CC differing aggressiveness and metastatic potential  
 XX  
 SQ Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;  
 Query Match 100.0%; Score 20; DB 3; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 1.1;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20  
 |||||  
 Db 1 GACCGCATAGACTTCTCAGA 20

RESULT 2  
 AAX93486  
 ID AAX93486 standard; DNA; 20 BP.  
 XX  
 AC AAX93486;  
 XX  
 DT 13-SEP-1999 (first entry)  
 XX  
 DE PCR primer used to amplify an ORF of Chlamydia pneumoniae.  
 XX  
 KW Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis;  
 KW sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine;  
 KW neutralising epitope; PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS Chlamydoiphila pneumoniae.  
 XX  
 PN WO927105-A2.  
 XX  
 PD 03-JUN-1999.  
 XX  
 PF 20-NOV-1998; 98WO-IB001890.  
 XX  
 PR 21-NOV-1997; 97FR-00014673.  
 PR 04-NOV-1998; 98US-0107078P.  
 XX  
 PA (GEST ) GENSET.  
 XX  
 PI Griffais R;  
 XX  
 DR WPI; 1999-357842/30.  
 XX  
 PT Genome sequence of Chlamydia pneumoniae.  
 XX  
 PS Page 1595; Disclosure; 1912pp; English.  
 XX  
 CC AAX91991-X97517 represent PCR primers used to amplify open reading frames  
 CC and other nucleic acid sequences from the genome of Chlamydia pneumoniae  
 CC (see AAX91990). C. pneumoniae causes respiratory disease such as  
 CC pneumonia and bronchitis and is thought to be a contributing factor in  
 CC heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema  
 CC nodosum or pharyngitis. The polypeptides encoded by the open reading  
 CC frames of the C. pneumoniae genome (see AAY34584- AAY35875) can be used  
 CC in immunogenic compositions as vaccines. Vectors containing C. pneumoniae  
 CC nucleotides sequences can also be used as immunogenic compositions,  
 CC especially where the vector directs the expression of a neutralising  
 CC epitope of C. pneumoniae  
 XX  
 SQ Sequence 20 BP; 7 A; 6 C; 3 G; 4 T; 0 U; 0 Other;  
 Query Match 69.0%; Score 13.8; DB 2; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 2.3e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTC 17  
 |||||  
 Db 3 GACCGCATAACTTATC 19

RESULT 3  
 AAD62200/c  
 ID AAD62200 standard; DNA; 20 BP.  
 XX  
 AC AAD62200;  
 XX  
 DT 15-JAN-2004 (first entry)  
 XX  
 DE Human haematopoietic cell tyrosine kinase antisense oligo ISIS #150755.  
 XX  
 KW Haematopoietic cell; tyrosine kinase; hyperproliferative disorder;  
 KW cancer; therapy; inflammation; diabetes; viral infection; inflammation;  
 KW tumour; cytostatic; virucide; antisense therapy; antisense; human;  
 KW phosphorothioate backbone; ss.

```
XX OS Homo sapiens.
XX OS Synthetic.
XX FH Location/Qualifiers
XX FT modified_base 1..20
XX FT /*tag= a
XX FT /mod_base= OTHER
XX FT /note= "Phosphorothioate backbone; All cytidines are 5-
XX FT methyl cytidines"
XX FT modified_base 1..5
XX FT /*tag= b
XX FT /mod_base= OTHER
XX FT /note= "2'-O-methoxyethyl (2'-MOE) nucleotides"
XX FT modified_base 16..20
XX FT /*tag= c
XX FT /mod_base= OTHER
XX FT /note= "2'-O-methoxyethyl (2'-MOE) nucleotides"
XX US2003125275-A1.
XX 03-JUL-2003.
XX 04-DEC-2001; 2001US-00007010.
XX 04-DEC-2001; 2001US-00007010.
XX (ISIS-) ISIS PHARM INC.
XX Borchers AH, Dobie KW;
XX WPI; 2003-811000/76.
XX New antisense oligonucleotides targeted to nucleic acids encoding
XX PT hematopoietic cell protein tyrosine kinase, useful for diagnosing or
XX PT treating cancer (e.g. leukemia), inflammation, diabetes or viral
XX PT infections.
XX Example 15; Page 26; 59pp; English.
XX The invention relates to a compound targetted to a nucleic acid molecule
XX CC encoding haematopoietic cell protein tyrosine kinase. The compound
XX CC inhibits the expression of haematopoietic cell protein tyrosine kinase
XX CC and it specifically hybridises with the nucleic acid molecule encoding
XX CC the tyrosine kinase or with at least an 8-nucleobase portion of an active
XX CC site on the nucleic acid molecule encoding the tyrosine kinase. The
XX CC antisense compounds are useful for modulating the expression of
XX CC haematopoietic cell protein tyrosine kinase and treating diseases or
XX CC conditions associated with the expression of the tyrosine kinase, such as
XX CC hyperproliferative disorders (e.g. cancer), inflammation, diabetes or a
XX CC viral infection. The antisense compounds are also useful for diagnostics,
XX CC therapeutics, prophylaxis, e.g. to prevent or delay infection,
XX CC inflammation or tumour formation, as research reagents and kits and in
XX CC distinguishing between functions of various members of a biological
XX CC pathway. The present sequence is human haematopoietic cell tyrosine
XX CC kinase antisense oligonucleotide
XX SQ Sequence 20 BP; 6 A; 2 C; 7 G; 5 T; 0 U; 0 Other;
Query Match 66.0%; Score 13.2; DB 10; Length 20;
Best Local Similarity 83.3%; Pred. No. 4.8e+03;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 2 ACCGCATAGACTTCTCAG 19
Db 20 AACTCATTTGACTTCTCAG 3
RESULT 4
ADT00440
ID ADT00440 standard; DNA; 20 BP.
XX AC ADT00440;

XX DT 16-DEC-2004 (first entry)
XX DE Novel mutant protein tyrosine kinase-related oligonucleotide SeqID428.
XX KW tyrosine kinase; cancer; anti-cancer agent; signalling molecule;
XX KW tumorigenesis; somatic alteration; colorectal cancer; NTRK3; FES;
XX KW GUCY2F; MCKK; MLK4; kinase domain; cytosolic; tyrosine kinase inhibitor;
XX KW guanylate cyclase stimulator; ss.
XX OS Homo sapiens.
XX PN WO2004082458-A2.
XX PD 30-SEP-2004.
XX PF 18-FEB-2004; 2004WO-US004452.
XX PR 21-FEB-2003; 2003US-0448537P.
XX PR 29-MAY-2003; 2003US-0473895P.
XX PA (UYJO ) UNIV JOHNS HOPKINS.
XX PI Bardelli A, Parsons W, Velculescu V, Kinzler KW, Vogelstein B;
XX WPI; 2004-718702/70.
XX PT Activated mutant protein tyrosine kinases (e.g. NTRK3, FES and MCKK) and
XX PT associated methods for diagnosing cancer and screening for anti-cancer
XX PT agents.
XX PS Disclosure; SEQ ID NO 428; 363pp; English.
XX CC This invention relates to a novel activated mutant protein tyrosine
XX CC kinases and associated methods for diagnosing cancer and screening for
XX CC anti-cancer agents. Protein kinases are signalling molecules involved in
XX CC tumorigenesis. Mutational analysis of the human tyrosine kinase gene
XX CC family identified somatic alterations in 5 colorectal cancers, with
XX CC the majority of mutations occurring in the NTRK3, FES, GUCY2F and
XX CC MCKK/MLK4 genes. Most were identified in the kinase domain. The invention
XX CC may be useful for the production of compounds with a cytostatic activity
XX CC acting as protein tyrosine kinase inhibitors or guanylate cyclase
XX CC stimulators. The invention may be useful for developing methods for
XX CC detecting mutations involved in cancer or screening for anti-cancer
XX CC agents. The present sequence is that of a human-derived oligonucleotide
XX CC which is related to the invention.
XX SQ Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;
Query Match 63.0%; Score 12.6; DB 13; Length 20;
Best Local Similarity 78.9%; Pred. No. 1e+04;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GACCCGATAGACTTCTCAG 19
Db 2 GACCCGATAGACTTCTCAG 20
RESULT 5
ACA08287
ID ACA08287 standard; DNA; 17 BP.
XX AC ACA08287;
XX 03-JUN-2003 (first entry)
XX DE Necrosis factor kappa B (NFkB) sub-unit modulating DNase #56.
XX KW Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inosine; zymase;
XX KW G-cleaver; amberszyme; cancer; REL-A activity; breast cancer; lung cancer;
XX KW prostate cancer; colorectal cancer; brain cancer; oesophageal cancer;
XX KW stomach cancer; bladder cancer; pancreatic cancer; cervical cancer;
XX KW head and neck cancer; ovarian cancer; melanoma; lymphoma; glioma;
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KW multidrug resistant cancer; REL-A-specific inhibitor; chemotherapy;  
 KW paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphamide;  
 KW doxorubicin; fluorouracil carboplatin; edatrexate; gemcitabine;  
 KW radiation therapy; inflammatory disease; asthma; diabetes;  
 KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
 KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
 KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
 KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
 XX  
 OS Synthetic.  
 OS US2002177568-A1.  
 PN 28-NOV-2002.  
 XX  
 XX 23-MAY-2001; 2001US-00864785.  
 XX 07-DEC-1992; 92US-00987132.  
 PR 18-MAY-1994; 94US-00245466.  
 PR 15-AUG-1994; 94US-00291932.  
 PR 23-DEC-1996; 96US-00777916.  
 XX (STIN/) STINCHCOMB D T.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (DRAP/) DRAPER K G.  
 XX Stinchcomb DT, Mcswiggen J, Draper KG;  
 PI MPI; 2003-340953/32.  
 XX  
 XX Novel enzymatic nucleic acid molecules which down regulates expression of  
 PT a sequence encoding a subunit of nuclear factor kappa B useful for  
 PT treating cancer, inflammatory disorders and autoimmune diseases.  
 XX  
 PS Claim 3; Page 46; 72pp; English.  
 XX  
 CC The invention describes an enzymatic nucleic acid molecule (I) which down  
 CC regulates expression of a sequence encoding a subunit of nuclear factor  
 CC kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme  
 CC configuration. The enzymatic nucleic acid molecule is adapted to treat  
 CC cancer and is useful for down-regulating REL-A activity in a cell, for  
 CC treating a patient having a condition associated with the level of REL-A.  
 CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
 CC the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
 CC antisense nucleic acid molecules are useful for treating breast, lung,  
 CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
 CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
 CC multidrug resistant cancer. The method involves use of other drug  
 CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
 CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,  
 CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,  
 CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic  
 CC acid molecules are also useful for treating inflammatory disease such as  
 CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
 CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
 CC rejection, gene therapy applications, ischaemia/reperfusion injury  
 CC (central nervous system (CNS) and myocardial), glomerulonephritis,  
 CC sepsis, allergic airway inflammation, inflammatory bowel disease or  
 CC infection. This sequence represents an enzymatic nucleic acid used to  
 CC modulate the function of a necrosis factor kappa B sub-unit  
 XX  
 SQ Sequence 17 BP; 4 A; 4 C; 5 G; 0 T; 4 U; 0 Other;  
 Query Match 62.0%; Score 12.4; DB 8; Length 17;  
 Best Local Similarity 64.3%; Pred. No. 1.3e+04;  
 Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;  
 QY 6 CATAGACTTCTCAG 19  
 ||: |||: |||:  
 Db 4 CAUGGACUUCUCAG 17

RESULT 6

ACA06680  
 ID ACA06680 standard; RNA; 17 BP.  
 XX  
 AC ACA06680;  
 XX  
 DT 03-JUN-2003 (first entry)  
 XX  
 DE NFKB sub-unit modulating inozyme substrate #499.  
 XX  
 KW Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;  
 KW G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;  
 KW lung cancer; prostate cancer; colorectal cancer; brain cancer;  
 KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
 KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;  
 KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;  
 KW chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;  
 KW cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;  
 KW gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
 KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
 KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
 KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
 KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
 XX  
 OS Homo sapiens.  
 OS US2002177568-A1.  
 PN 28-NOV-2002.  
 XX  
 XX 23-MAY-2001; 2001US-00864785.  
 XX 07-DEC-1992; 92US-00987132.  
 PR 18-MAY-1994; 94US-00245466.  
 PR 15-AUG-1994; 94US-00291932.  
 PR 23-DEC-1996; 96US-00777916.  
 XX (STIN/) STINCHCOMB D T.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (DRAP/) DRAPER K G.  
 XX Stinchcomb DT, Mcswiggen J, Draper KG;  
 PI MPI; 2003-340953/32.  
 XX  
 PT Novel enzymatic nucleic acid molecules which down regulates expression of  
 PT a sequence encoding a subunit of nuclear factor kappa B useful for  
 PT treating cancer, inflammatory disorders and autoimmune diseases.  
 XX  
 PS Claim 3; Page 34; 72pp; English.  
 XX  
 CC The invention describes an enzymatic nucleic acid molecule (I) which down  
 CC regulates expression of a sequence encoding a subunit of nuclear factor  
 CC kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme  
 CC configuration. The enzymatic nucleic acid molecule is adapted to treat  
 CC cancer and is useful for down-regulating REL-A activity in a cell, for  
 CC treating a patient having a condition associated with the level of REL-A.  
 CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
 CC the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
 CC antisense nucleic acid molecules are useful for treating breast, lung,  
 CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
 CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
 CC multidrug resistant cancer. The method involves use of other drug  
 CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
 CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,  
 CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,  
 CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic  
 CC acid molecules are also useful for treating inflammatory disease such as  
 CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
 CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
 CC rejection, gene therapy applications, ischaemia/reperfusion injury  
 CC (central nervous system (CNS) and myocardial), glomerulonephritis,  
 CC sepsis, allergic airway inflammation, inflammatory bowel disease or  
 CC infection. This sequence represents the substrate of a novel enzymatic



```

FH Key      Location/Qualifiers
FT modified_base 1..18
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone"
FT modified_base 1..4
FT /tag= a
FT /mod_base= OTHER
FT /note= "OTHER= Optionally 2'-O-Methoxyethyl (2'-MOE)
FT nucleotides"
FT modified_base 15..18
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= Optionally 2'-O-Methoxyethyl (2'-MOE)
FT nucleotides"
XX
XX US2004147471-A1.
XX
XX PN
XX
XX PD
XX
XX PF 06-NOV-2003; 2003US-00702817.
XX
XX PR 26-JUN-1998; 98US-00106038.
XX
XX PR 17-JUN-1999; 99WO-US013763.
XX
XX PR 24-OCT-2000; 2000US-00695451.
XX
XX (ZHAN/) ZHANG H.
XX
XX PA
XX Zhang H;
XX
XX PI
XX
XX DR WPI; 2004-561407/54.
XX
XX PT Inhibiting radiation-induced apoptosis in a cell or tissue comprises
XX administering to the cell or tissue an antisense oligonucleotide targeted
XX to a nucleic acid molecule encoding tumor necrosis factor receptor 1.
XX
XX PS Example 10; SEQ ID NO 75; 24pp; English.
XX
XX CC The invention describes a method of inhibiting radiation-induced
XX apoptosis in a cell or tissue comprising administering to the cell or
XX tissue an antisense oligonucleotide of 8-30 nucleotides in length
XX targeted to a nucleic acid molecule encoding tumor necrosis factor
XX receptor 1 (TNFR1). The method and antisense oligonucleotides are useful
XX for inhibiting radiation-induced apoptosis in a cell or tissue, and for
XX treating diseases associated with the expression of TNFR1. This sequence
XX represents a human tumor necrosis factor receptor 1 (TNFR1) antisense
XX oligonucleotide.
XX
XX SQ Sequence 18 BP; 5 A; 3 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 61.0%; Score 12.2; DB 13; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.6e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 CGCATAGACTTCTCAGA 20
Db ||||| ||||| |||||
18 CGCCAGTCTCTCAGA 2

RESULT 10
ADG73193
ID ADG73193 standard; DNA; 19 BP.
XX
XX AC ADG73193;
XX
XX 11-MAR-2004 (first entry)
XX
XX DE Pseudomonas syringae pv. tomato DC3000 Hop gene PCR primer #40.
XX
XX KW Avr; Hop; transgenic plant; disease resistance; cancer; bacteria;
XX metabolic pathway; eukaryotic cell death; programmed cell death;
XX cytosstatic; PCR; primer; ss.
XX

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OS Pseudomonas syringae; pv. tomato str. DC3000.
XX
XX PN US2003204868-A1.
XX
XX PD 30-OCT-2003.
XX
XX PF 12-FEB-2003; 2003US-00365742.
XX
XX PR 12-FEB-2002; 2002US-0356408P.
XX
XX PR 10-MAY-2002; 2002US-0380185P.
XX
XX (COLL/) COLLIER A.
XX (ALFA/) ALFANO J R.
XX (CART/) CARTINHOUS S W.
XX (SCHN/) SCHNEIDER D J.
XX (TANG/) TANG X.
XX
XX PI Collmer A, Alfano JR, Cartinhou SW, Schneider DJ, Tang X;
XX WPI; 2003-875735/81.
XX
XX DR
XX
XX PR New nucleic acid, useful in imparting disease resistance to a plant or in
XX preparing a composition for treating cancer.
XX
XX PS Example; SEQ ID NO 187; 209pp; English.
XX
XX CC The present invention relates to the isolation of Pseudomonas syringae
XX pv. tomato DC3000 Avr/Hop proteins, and the polynucleotide sequences
XX encoding them. Also disclosed are expression vectors, host cells, and
XX transgenic plants comprising polynucleotide sequences of the invention.
XX The polynucleotide and polypeptide sequences are useful in imparting
XX disease resistance to a plant or in preparing a composition for treating
XX cancer. The sequences may also be used to make a plant hypersusceptible
XX to colonisation by nonpathogenic bacteri, modify a metabolic pathway in
XX a cell, cause eukaryotic cell death, and inhibit programmed cell death.
XX The present sequence represents a PCR primer used in the examples of the
XX present invention.
XX
XX SQ Sequence 19 BP; 4 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 61.0%; Score 12.2; DB 10; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.6e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCTCAG 19
Db ||||| ||||| |||||
3 CCGCATAGACCTGTCTG 19

RESULT 11
ADL12249
ID ADL12249 standard; DNA; 19 BP.
XX
XX AC ADL12249;
XX
XX 06-MAY-2004 (first entry)
XX
XX DE Pseudomonas syringae anti-cancer gene primer #60.
XX
XX KW cytosstatic; gene therapy; Avr; Hop; cancer; primer; ss.
XX
XX OS Pseudomonas syringae; pv tomato DC3000.
XX
XX PN WO2003068930-A2.
XX
XX PD 21-AUG-2003.
XX
XX PR 12-FEB-2003; 2003WO-US004450.
XX
XX PR 12-FEB-2002; 2002US-0356408P.
XX
XX PR 10-MAY-2002; 2002US-0380185P.
XX
XX (CORR ) CORNELL RES FOUND INC.
XX

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PA (USDA ) US SEC OF AGRIC.  
PA (UYNE-) UNIV NEBRASKA.  
PA (UNIV ) UNIV KANSAS STATE RES FOUND.  
XX Collmer A, Alfano JR, Cartinhour SW, Schneider DJ, Tang X;  
XX WPI; 2003-679632/64.  
XX New nucleic acid molecule, useful for preparing a composition for  
PT treating cancer.  
XX Disclosure; SEQ ID NO 187; 284pp; English.  
XX The invention relates to novel Pseudomonas Avr and Hop genes, a sequence  
CC that hybridizes with these sequences under stringency conditions  
CC comprising a hybridization medium that includes 0.9 x saline sodium  
CC citrate (SSC) buffer at a temperature of 42 deg C. The nucleic acid  
CC molecule is useful for preparing a composition for treating cancer. This  
CC sequence corresponds to a PCR to isolate and amplify one of the genes of  
CC the invention.  
XX  
XX Sequence 19 BP; 4 A; 7 C; 4 G; 4 T; 0 U; 0 Other;  
SQ  
Query Match 61.0%; Score 12.2; DB 10; Length 19;  
Best Local Similarity 82.4%; Pred. No. 1.6e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 3 CCGCATAGACTTCTCAG 19  
DB 3 CCGCATAGACCTGCTG 19  
RESULT 12  
ADI79866  
ID ADI79866 standard; DNA; 20 BP.  
XX  
XX ADI79866;  
XX  
XX 22-APR-2004 (first entry)  
XX Mouse HMG-CoA reductase antisense oligonucleotide, SEQ ID No 389.  
DE  
DE HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;  
KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipaemic;  
KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;  
KW mouse; murine; ss.  
XX  
XX Mus musculus.  
XX  
XX US2004006031-A1.  
XX  
XX 08-JAN-2004.  
XX  
XX 02-JUL-2002; 2002US-00190366.  
XX  
XX 02-JUL-2002; 2002US-00190366.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Dean NM, Freier SM, Dobie KW;  
XX  
XX WPI; 2004-081743/08.  
XX  
XX New compounds, particularly antisense oligonucleotides targeted to a  
PT nucleic acid encoding HMG-CoA reductase, useful for treating  
PT atherosclerosis, or a disease involving cholesterol metabolism or  
PT angiogenesis.  
XX  
XX Example 16; SEQ ID NO 389; 110pp; English.  
XX  
XX The invention relates to novel compounds of 8-80 nucleobases in length  
CC targeted to, and which specifically hybridises with, a nucleic acid  
CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)

CC reductase, and inhibits the expression of HMG-CoA reductase. The novel  
CC compounds have cardiant, antiarteriosclerotic, and antilipaemic  
CC activities. The compound can be used to treat disorders by antisense gene  
CC therapy. The compounds, compositions and methods are useful for treating  
CC a disease or condition associated with HMG-CoA reductase, such as a  
CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition  
CC involving cholesterol metabolism. They are also useful in research and  
CC diagnostics for modulating the expression of HMG-CoA reductase. This  
CC polynucleotide sequence represents an antisense oligonucleotide of the  
CC invention.  
XX  
XX Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;  
SQ  
Query Match 61.0%; Score 12.2; DB 12; Length 20;  
Best Local Similarity 82.4%; Pred. No. 1.6e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 4 CCGCATAGACTTCTCAGA 20  
DB 3 CACAGAGACTCTCTCAGA 19  
RESULT 13  
ADI79673/C  
ID ADI79673 standard; DNA; 20 BP.  
XX  
XX ADI79673;  
XX  
XX 22-APR-2004 (first entry)  
XX Mouse HMG-CoA reductase antisense oligonucleotide, SEQ ID No 196.  
DE  
DE HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;  
KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipaemic;  
KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;  
KW mouse; murine; ss.  
XX  
XX Mus musculus.  
XX  
XX US2004006031-A1.  
XX  
XX 08-JAN-2004.  
XX  
XX 02-JUL-2002; 2002US-00190366.  
XX  
XX 02-JUL-2002; 2002US-00190366.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Dean NM, Freier SM, Dobie KW;  
XX  
XX WPI; 2004-081743/08.  
XX  
XX New compounds, particularly antisense oligonucleotides targeted to a  
PT nucleic acid encoding HMG-CoA reductase, useful for treating  
PT atherosclerosis, or a disease involving cholesterol metabolism or  
PT angiogenesis.  
XX  
XX Example 16; SEQ ID NO 196; 110pp; English.  
XX  
XX The invention relates to novel compounds of 8-80 nucleobases in length  
CC targeted to, and which specifically hybridises with, a nucleic acid  
CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)

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XX SQ Sequence 20 BP; 4 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
Query Match 61.0%; Score 12.2; DB 12; Length 20;
Best Local Similarity 82.4%; Pred. No. 1.6e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 4 CGCATAGACTTCTCAGA 20
DB 18 CACAGAGACTCTCTCAGA 2

RESULT 14
AAQ32840
ID AAQ32840 standard; DNA; 20 BP.
XX AC
XX AAQ32840;
XX AC
XX 25-MAR-2003 (revised)
DT 05-MAY-1993 (first entry)
XX AC
DE Microsatellite repeat polymorphic DNA marker PCR primer.
XX PIC; high polymorphism information content; forensic; screening;
KW polymerase chain reaction; genetic mapping; paternity; prenatal.
XX Synthetic.
XX WO9221693-A1.
XX PN
XX PD 10-DEC-1992.
XX PF 27-MAY-1992; 92WO-US004195.
XX PR 29-MAY-1991; 91US-00707501.
XX PR 27-NOV-1991; 91US-00799828.
XX PA (USSH ) US DEPT HEALTH & HUMAN SERVICE.
XX PI Polymeropoulos MH, Merrill CR;
XX WPI; 1992-433606/52.
XX DR
XX Oligo-nucleotide primers for polymerase chain reaction amplification -
PT which detect DNA polymorphisms and are useful for prenatal and paternity
PT screening, and genetic mapping.
XX Disclosure; Fig 60; 44pp; English.
XX This is a PCR primer which is used (with AAQ32841) to characterise a
CC unique microsatellite repeat polymorphic DNA marker which has a high
CC polymorphism information content. The marker is useful for human
CC individualisation, in forensic screening, in paternity and prenatal
CC screening as well as in genetic mapping. (Updated on 25-MAR-2003 to
CC correct PN field.)
XX SQ Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 60.0%; Score 12; DB 2; Length 20;
Best Local Similarity 75.0%; Pred. No. 2.1e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GACCGCATAGACTTCTCAGA 20
DB 1 GACCCACAGCCTATTTCAGA 20

RESULT 15
AAQ57863
ID AAQ57863 standard; DNA; 20 BP.
XX AC
XX AAQ57863;
XX AC
XX 01-DEC-1999 (first entry)
DE Exemplary oligonucleotide primer TBP (For).
XX neoplasia; mutant; target nucleotide; hybridization; lung cancer; ss;
KW neck cancer; head cancer; saliva test; chemotherapy; early detection;

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DT 25-MAR-2003 (revised)
DT 21-AUG-1994 (first entry)
XX
DE Primer pair 26A II-D detection primer #1.
XX
KW Primer; assay; subtle difference; dinucleotide; tetranucleotide; repeat;
KW polymorphism; PCR; polymerase chain reaction; amplify; PAGE;
KW autoradiography; migration pattern; length variation; genetic mapping;
KW forensic screening; paternity; prenatal; screening; microsatellite;
KW human; ss.
XX
OS Synthetic.
XX WO9403640-A1.
XX PN
XX PD 17-FEB-1994.
XX PF 30-JUL-1993; 93WO-US007183.
XX PR 31-JUL-1992; 92US-00922723.
XX PR 28-SEP-1992; 92US-00952277.
XX PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.
XX PI Polymetopolous MH, Merrill CR;
XX WPI; 1994-065727/08.
XX DR
XX New polynucleotide sequences - derived from polymorphic microsatellite
PT repeats, used for characterising human individuals for forensic,
PT paternity and prenatal screening and genetic mapping.
XX Disclosure; Page 47; 72pp; English.
XX
CC The sequences given in AAQ57782-866 are primers which were used in an
CC assay for measuring the subtle differences in genetic material regarding
CC an added or omitted set of dinucleotide or tetranucleotide repeat
CC polymorphisms. The method comprises obtaining polynucleotide segments
CC comprising the repeat polymorphisms in an amount effective for testing
CC and amplifying the segments by a PCR procedure using a pair of
CC oligonucleotide primers capable of amplifying the polymorphism containing
CC sequence. The amplified sequences are resolved using PAGE and the
CC resolved sequences are compared by autoradiography to observe the
CC differences in migration pattern due to length variation. The
CC polynucleotides provide a fast and accurate test for measuring the subtle
CC differences in individuals in eg. forensic screening, paternity and
CC prenatal screening and genetic mapping. The polynucleotides are specific
CC for polymorphic microsatellite repeats based on previously sequenced
CC human genes. (Updated on 25-MAR-2003 to correct PN field.)
XX SQ Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 60.0%; Score 12; DB 2; Length 20;
Best Local Similarity 75.0%; Pred. No. 2.1e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GACCGCATAGACTTCTCAGA 20
DB 1 GACCCACAGCCTATTTCAGA 20

RESULT 16
AAZ21763
ID AAZ21763 standard; DNA; 20 BP.
XX AC
XX AAZ21763;
XX DT
XX 01-DEC-1999 (first entry)
DE Exemplary oligonucleotide primer TBP (For).
XX neoplasia; mutant; target nucleotide; hybridization; lung cancer; ss;
KW neck cancer; head cancer; saliva test; chemotherapy; early detection;

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KW primer; PCR; amplification.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO9946408-A1.  
 XX  
 PD 16-SEP-1999.  
 XX  
 PF 10-MAR-1999; 99WO-US005220.  
 XX  
 PR 10-MAR-1998; 98US-00038637.  
 XX  
 PA (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.  
 XX  
 PI Sidransky D;  
 XX  
 DR WPI; 1999-551428/46.  
 XX  
 PT Detection of cancers comprises assaying for a genetic mutation associated with cancer.  
 PT  
 XX Disclosure; Page 27; 99pp; English.  
 PS  
 CC This is an exemplary oligonucleotide primer, for use in the detection of neoplastic related gene mutations. There are over 40 known proto-oncogenes and suppressor genes to date, which control growth, development, and cell differentiation. Regulation of these genes can, under certain circumstances, be altered and normal cells can assume neoplastic growth characteristics. The invention provides a method for detecting a neoplastic disorder of the head and neck or lung in a subject. The detection of a target mutant nucleotide sequence in the saliva is indicative of a neoplastic disorder of the head, neck or lung. CC This allows early detection and therefore treatment of the preneoplasia or cancer, and can also be used to monitor high risk patients undergoing chemoprevention or chemotherapy  
 CC  
 XX Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;  
 SQ  
 Query Match 60.0%; Score 12; DB 2; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 2.1e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
 QY 1 GACCGCATAGACTTCTCAGA 20  
 DB 1 GACCCACACAGCCTATTTCAGA 20  
 RESULT 17  
 AAC60963  
 ID AAC60963 standard; DNA; 20 BP.  
 XX  
 AC AAC60963;  
 XX  
 DT 13-FEB-2001 (first entry)  
 XX  
 DE TATA box-binding protein short tandem repeat primer SEQ ID NO:23.  
 XX  
 KW Short tandem repeat; primer; STR; susceptibility; HIV; infection; AIDS;  
 KW detection; polymorphism; interleukin 10 promoter; IL-10;  
 KW chromosome position 6q27; TATA box-binding protein; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2000061811-A2.  
 XX  
 PD 19-OCT-2000.  
 XX  
 XX 06-APR-2000; 2000WO-US009355.  
 PF  
 XX 09-APR-1999; 99US-0128521P.  
 PR  
 XX (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 PA  
 Smith MW, Shin HD, O'Brien SJ;  
 WPI; 2000-687051/67.  
 Predicting susceptibility to HIV infection or progression useful for selection of therapeutic treatment for persons infected with HIV virus, comprises detecting polymorphism in human interleukin-10 promoter.  
 Example 1; Page 12; 40pp; English.  
 The present invention describes a method for predicting susceptibility to HIV infection or HIV progression in a subject. The method involves detecting a polymorphism in a human interleukin-10 (IL-10) promoter, where the presence of the polymorphism indicates susceptibility to HIV infection or HIV progression. The method provides prognostic information to persons infected with HIV virus and is useful to help select treatments (such as administration of IL-10 or gene therapy with IL-10). The presence of polymorphism is useful as predictor that very aggressive treatment could substantially eradicate the virus from the infected person. The method is useful for the generation of normograms or other predictive algorithms that can be used, in association with allele status, to prognose probable survival or years to development of AIDS following HIV seroconversion. It indicates that increased expression of the IL-10 gene helps to reduce HIV-1 infection and pathogenic progression and enables a variety of new therapeutic interventions in the treatment of HIV disease. The present sequence represents a short tandem repeat (STR) primer which is used in an example from the present invention  
 Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;  
 Query Match 60.0%; Score 12; DB 3; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 2.1e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
 QY 1 GACCGCATAGACTTCTCAGA 20  
 DB 1 GACCCACACAGCCTATTTCAGA 20  
 RESULT 18  
 ADB42063  
 ID ADB42063 standard; DNA; 17 BP.  
 XX  
 AC ADB42063;  
 XX  
 DT 18-DEC-2003 (revised)  
 DT 04-DEC-2003 (first entry)  
 XX  
 DE Tumour suppression/reversion associated nucleotide #2386.  
 XX  
 KW cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;  
 KW primer; probe; tumour suppression; tumour reversion; apoptosis;  
 KW virus resistance; transgenic animals; Alzheimer's disease; schizophrenia; diagnosis.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003040369-A2.  
 XX  
 PD 15-MAY-2003.  
 XX  
 PF 17-SEP-2002; 2002WO-IB004219.  
 XX  
 PR 17-SEP-2001; 2001FR-00011981.  
 XX  
 PA (MOLE-) MOLECULAR ENGINES LAB.  
 XX  
 PI Teleman A, Anson R, Tuijnder M;  
 XX  
 DR WPI; 2003-441574/41.  
 XX  
 PT New nucleic acid encoding human prostate membrane-specific antigen,

PT useful e.g. for treatment of tumors and viral infection, also related  
PT polypeptide and antibodies.  
XX  
PS Disclosure; Page 311; 771pp; French.  
XX  
CC The invention relates to the isolation of 6327 nucleotide sequences,  
CC fragments of at least 15 consecutive nucleotides of these nucleotides, a  
CC sequence having at least 80% identity, after optimal alignment, with the  
CC nucleotides, a sequence that hybridizes under stringent conditions with  
CC the nucleotides, or the complement, or corresponding RNA, of the  
CC nucleotides. The nucleotides are used as probes or primers for detecting,  
CC identifying, quantifying and/or amplifying nucleic acids, as in vitro  
CC sense and antisense sequences, of nucleotides involved in tumour  
CC suppression or reversion, apoptosis and or viral resistance, to produce  
CC recombinant polypeptides, and to prepare transgenic animals, as  
CC experimental models. The nucleotides (also vectors containing them and  
CC cells containing the vectors), the encoded polypeptides and antibodies  
CC (Ab) against the polypeptide are useful for prevention and/or treatment  
CC of viral infections or diseases characterized by development of tumours  
CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).  
CC Analysis of the expression of the nucleotides can be used for diagnosis  
CC and/or prognosis of these diseases. The nucleotides and polypeptides can  
CC also be used to screen for their specific interactive molecules,  
CC potentially useful for treating diseases associated with abnormal  
CC expression of the nucleotides.  
XX  
SQ Sequence 17 BP; 6 A; 5 C; 2 G; 4 T; 0 U; 0 Other;  
  
Query Match 59.0%; Score 11.8; DB 10; Length 17;  
Best Local Similarity 86.7%; Pred. No. 2.6e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1 GACCGCATAGACTTC 15  
||| |||||  
Db 1 GATCACATAGACTTC 15  
  
RESULT 19  
ADI48431/c  
ID ADI48431 standard; DNA; 17 BP.  
XX  
AC ADI48431;  
XX  
DT 15-APR-2004 (first entry)  
XX  
DE Human tumour suppression/reversion-related DNA sequence SeqID934.  
XX  
KW tumour suppression; tumour reversion; apoptosis; virus resistance;  
KW cytosstatic; virucide; neuroprotective; nootropic; neuroleptic; probe;  
KW primer; PCR; gene chip; antisense; viral disease; tumour;  
KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.  
XX  
OS Homo sapiens.  
XX  
PN WO2003025177-A2.  
XX  
PD 27-MAR-2003.  
XX  
XX 17-SEP-2002; 2002WO-IB004523.  
XX  
PF 17-SEP-2001; 2001FR-00011980.  
XX  
XX (MOLE-) MOLECULAR ENGINES LAB.  
XX  
XX Telerman A, Amson R, Tuijnder M;  
XX WPI; 2003-313354/30.  
XX  
XX New isolated nucleic acid, useful for treating viral diseases associated  
PT with tumors and cell degeneration, also related polypeptides, antibodies  
PT and transfected cells.  
XX  
XX Disclosure; SEQ ID NO 934; 30pp; French.

XX This invention relates to novel isolated nucleic acid sequences involved  
CC in the phenomena of tumour suppression, tumour reversion, apoptosis  
CC and/or resistance to viruses. The invention may be useful for the  
CC development of compounds with a cytosstatic, virucide, neuroprotective,  
CC nootropic or neuroleptic activity. The DNA sequences may be useful as  
CC probes and primers for detecting, indentifying, quantifying and/or  
CC amplifying nucleic acid, for example as one component of a gene chip, in  
CC vitro as antisense reagents and for production of recombinant  
CC polypeptides. The invention may therefore be useful for preparation of  
CC pharmaceuticals for prevention and/or treatment of viral diseases that  
CC are characterised by development of tumours or cell degeneration,  
CC specifically cancer but also Alzheimer's disease and schizophrenia. The  
CC present sequence is that of a nucleic acid sequence of the invention.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/publishedpct\_sequences  
XX  
SQ Sequence 17 BP; 6 A; 1 C; 5 G; 5 T; 0 U; 0 Other;  
  
Query Match 59.0%; Score 11.8; DB 10; Length 17;  
Best Local Similarity 86.7%; Pred. No. 2.6e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 6 CATAGACTTCTCAGA 20  
||||| ||||| ||  
Db 17 CATAAACTTCTCTGA 3  
  
RESULT 20  
AAQ94315/c  
ID AAQ94315 standard; DNA; 18 BP.  
XX  
XX AAQ94315;  
AC  
XX  
DT 09-MAY-1996 (first entry)  
XX  
DE Human cytochrome P450IIC18 exon 2 point mutant 204 PCR primer.  
XX  
KW Human-derived; cytochrome P450IIC18 gene; point mutant; exon 2;  
KW position 204; PCR primer; polymorphism; medicine metabolism; tricyclics;  
KW benzodiazepines; beta blockers; barbiturates; ss.  
XX  
OS Synthetic.  
XX  
XX WO9526415-A1.  
PN  
XX  
PD 05-OCT-1995.  
XX  
XX 28-MAR-1995; 95WO-JP000570.  
PF  
XX  
PR 29-MAR-1994; 94JP-00059385.  
PR 29-MAR-1994; 94JP-00059386.  
XX  
XX (SUMO) SUMITOMO CHEM CO LTD.  
XX  
XX Komai K, Kaneko H, Nakatsuka I;  
PI  
XX WPI; 1995-351329/45.  
DR  
XX  
PT Oligo:nucleotide which hybridises to human cytochrome P450IIC18 gene -  
PT for detection of mutation(s) in the gene when establishing safe  
PT medication dosage in individual patients.  
XX  
XX Claim 4; Page 20; 34pp; Japanese.  
XX  
XX The oligos AAQ94315-27 which hybridise to the human-derived cytochrome  
CC P450IIC18 gene, esp. to the gene having a point mutation at position 204  
CC in exon 2, can be used as PCR amplification primers which discriminate  
CC between the normal and mutated gene, allowing the degree of genetic  
CC polymorphism in a patient to be determined. As the gene prod.  
CC participates in the metabolism of medicines (e.g. tricyclics,  
CC benzodiazepines, beta blockers and barbiturates), patients with mutant

CC genes differ in their drug metabolising ability and therefore knowledge  
of this allows the safe dosage of medicine to be more accurately assessed

XX Sequence 18 BP; 5 A; 4 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 2; Length 18;  
Best Local Similarity 86.7%; Pred. No. 2.6e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAGA 20  
|||||  
Db 16 CATAGACTTTTGAGA 2

RESULT 21  
AAV30475  
ID AAV30475 standard; DNA; 18 BP.  
XX AC AAV30475;  
XX DT 14-OCT-1998 (first entry)  
XX Canine beta-3 adrenergic receptor antisense primer TR21.  
DE Canine; beta-adrenergic receptor; brown adipose tissue; probe; human;  
XX hybridisation; ligand; primer; ss.  
KW Synthetic.  
OS Canis familiaris.  
XX WO9735973-A2.  
XX PD 02-OCT-1997.  
XX PF 26-MAR-1997; 97WO-FR000537.  
XX PR 26-MAR-1996; 96FR-00003730.  
XX (VETI-) VETIGEN.  
XX Lenzen G, Pietri-Rouxel F, Drumare M, Strosberg AD;  
XX WPI; 1998-032136/03.  
XX Canine beta 2 and beta 3 adrenergic receptors and coding sequences -  
PT useful for identifying specific ligands and (ant)agonists to develop  
PT specific treatments for obesity in dogs.  
XX Claim 17; Page 49; 79pp; French.  
XX Primers AAV30470-V30490 were used for sequencing the coding region of the  
CC canine beta 3-adrenergic receptor (RA-Ca-B3) gene (AAV30469). RA-Ca-B3  
CC has been implicated in obesity and obesity-related metabolic disorders  
CC e.g. diabetes. The canine version of RA-Ca-B3 can be used to develop  
CC treatments specific for dogs. The sequence can also be used in  
CC differential screening for ligands for RA-Ca-B3 as compared to the beta-2  
CC adrenergic receptor (AAW44932)  
XX Sequence 18 BP; 3 A; 8 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 2; Length 18;  
Best Local Similarity 86.7%; Pred. No. 2.6e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCTC 17  
|||||  
Db 3 CCGCAGAGACTTCTC 17

RESULT 22  
AAV33985  
ID AAV33985 standard; DNA; 20 BP.  
XX

AAV33985;  
25-JAN-1999 (first entry)  
Primer CT1431P for C. trachomatis cryptic plasmid sequence.  
Primer; PCR; amplification; gag; qualitative; quantitative; analysis;  
infection; diagnosis; detection; serotype; ss.  
Synthetic.  
Chlamydia trachomatis.  
US5795722-A.  
18-AUG-1998.  
18-MAR-1997; 97US-00819912.  
18-MAR-1997; 97US-00819912.  
(VISI-) VISIBLE GENETICS INC.  
Dunn JM, Lacroix J;  
WPI; 1998-466660/40.  
Simultaneous qualitative and quantitative analysis of target nucleic acid  
- by simultaneous amplification of analyte and control with one primer  
pair and of sequencing fragment with second primer pair that includes  
label for immobilisation, especially for HIV-1 detection.  
Disclosure; Col 8; 18pp; English.  
Primers AAV33985-V33986 are used to amplify a fragment of the Chlamydia  
trachomatis cryptic plasmid sequence. The primers are used in a method  
for the qualitative and quantitative analysis of a nucleic acid analyte  
in a sample. The method comprises adding a control nucleic acid to the  
sample and two primer pairs, one pair which can amplify a conserved  
region of the sample nucleic acid and a region of the control nucleic  
acid to produce fragments (F1, F2) of differing lengths, while the other  
pair amplifies a second region of the sample nucleic acid to form a  
sequencing fragment (F3). The method generates a mixture of all 3  
fragments if the sample nucleic acid is present but only F2 if it is  
absent. The resultant mixture is analysed for relative amounts of F1 and  
F2, to quantify the level of sample nucleic acid; and fragment F3 is  
sequenced to determine the nature of sample nucleic acid. The method can  
be used for any infectious organism, e.g. human papilloma virus or  
Chlamydia trachomatis. By using primers specific for the disease to be  
tested e.g. HIV-1, the disease can be detected and by the amount of  
amplification product formed, the viral load i.e. the extent of the  
disease can be assessed. Then by using in the same assay a pair of  
sequencing primers, the serotype of the disease organism can be  
determined, leading to a more exact treatment  
Sequence 20 BP; 6 A; 3 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 2; Length 20;  
Best Local Similarity 86.7%; Pred. No. 2.7e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTCAG 19  
|||||  
Db 3 GCATAACTTCTCAG 17

RESULT 23  
AAZ24116  
ID AAZ24116 standard; DNA; 20 BP.  
XX AAZ24116;  
XX  
XX  
DT 03-FEB-2000 (first entry)  
XX

```

DE Primer CT1431F-Cy5.5.
XX
KW Detection; target; diagnosis; mutant; human leucocyte antigen typing;
KW transplantation; pathogen; amplification; primer; ss.
XX
OS Synthetic.
XX
PN DE19917871-A1.
XX
XX 11-NOV-1999.
XX
XX 20-APR-1999; 99DE-01017871.
XX
XX 24-APR-1998; 98US-00065748.
XX
XX (VISI-) VISIBLE GENETICS INC.
XX
XX Leushner J, Lacroix J, Hui M, Dunn J, Larson MT;
XX
XX WPI; 2000-040351/04.
XX
XX Nucleic acid sequencing involving chain extensions reaction in presence of
XX chain terminator e.g. for detecting mutations.
XX
XX Example 1; Page 9; 18pp; German.
XX
XX This invention describes a novel method for determining the position of
XX at least one nucleotide (A) within a segment of a target nucleic acid
XX (present in a sample). The method comprises (i) combining the sample with
XX a reaction mixture to synthesize, from the sample, chain-extension
XX products which display the presence of (A) and (ii) evaluating the
XX products. The method is used for diagnosis, e.g. (I) detecting mutations,
XX in human, animal, plant or microbial sequences, particularly medically
XX significant mutations, (II) for human leucocyte antigen typing (in
XX transplantation), (III) detecting or identifying microbes, particularly
XX pathogens; or in situ sequencing in histological samples, especially
XX archival samples for retrospective analysis. The method makes it possible
XX to sequence segments of a target nucleic acid, even when this is present
XX in its natural concentration in a highly complex sample. It is suitable
XX for automation; the system represents a way of minimizing errors caused
XX by contaminants or carried-over nucleic acid; only minimal sample
XX pretreatment is involved and only a single batch of reagent, and single
XX vessel, are required. AA224114-224122 represent primers used in the
XX method of the invention
XX
SQ Sequence 20 BP; 6 A; 3 C; 5 G; 6 T; 0 U; 0 Other;
Query Match 59.0%; Score 11.8; DB 3; Length 20;
Best Local Similarity 86.7%; Pred. No. 2.7e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTCAG 19
Db 3 GCATAAATCTCTCAG 17

RESULT 24
ABZ91284/c
ID ABZ91284 standard; DNA; 20 BP.
XX
XX AC ABZ91284;
XX
XX 17-OCT-2003 (first entry)
XX
XX Human oligonucleotide sequence.
XX
XX Human; antisense; lung dysfunction; nasal airway dysfunction;
XX antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
XX antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
XX antisense gene therapy; respiratory; lung; adenosine sensitivity;
XX adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
XX lung inflammation; respiratory disease; ds.

DE
XX
XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
XX respiratory tract inflammation; adenosine sensitivity; lung cancer;
XX surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;
XX analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;
XX beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
XX respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;
XX emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;

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OS Homo sapiens.
XX
XX WO200295308-A2.
XX
XX 31-OCT-2002.
XX
XX 23-APR-2002; 2002WO-US013135.
XX
XX 24-APR-2001; 2001US-0286137P.
XX
XX (EPITG-) EPIGENESIS PHARM INC.
XX
XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
XX Miller S, Tang L, Shahabuddin S;
XX
XX WPI; 2003-229219/22.
XX
XX Pharmaceutical composition for treating ailments associated with impaired
XX respiration, has oligo(s) antisense to specific gene(s) or its
XX corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
XX ubiquinone.

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PS Disclosure; SEQ ID NO 6526; 872pp; English.
XX
XX The invention relates to a novel pharmaceutical composition, which has a
XX first active agent comprising an oligonucleotide antisense to the
XX initiation codon, coding region, 5' or 3' end genomic flanking regions,
XX 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
XX junctions of genes encoding a polypeptide associated with lung and/or
XX nasal airway dysfunction and a second active agent comprising an
XX antiinflammatory steroid and ubiquinone. A composition of the invention
XX has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
XX immunosuppressive, and cytostatic activity. The composition may have a
XX use in antisense gene therapy. The composition is useful for treating or
XX preventing a respiratory, lung or malignant disease or condition, also
XX for enhancing the prophylactic or therapeutic respiratory effect of an
XX antiinflammatory steroid in a subject, for reducing or depleting levels
XX of, or reducing sensitivity to adenosine, reducing levels of ubiquinone or
XX receptor, producing bronchodilation, increasing levels of ubiquinone or
XX lung surfactant in a subject's tissue, or treating bronchoconstriction,
XX lung inflammation, lung allergies, or a respiratory disease or condition.
XX Note: The sequence data for this patent is not represented in the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences

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SQ Sequence 20 BP; 6 A; 4 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 59.0%; Score 11.8; DB 10; Length 20;
Best Local Similarity 86.7%; Pred. No. 2.7e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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```

QY 6 CATAGACTTCTCAGA 20
Db 19 CTTACACTTCTCAGA 5

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RESULT 25
ABD27514/c
ID ABD27514 standard; DNA; 20 BP.
XX
XX AC ABD27514;
XX
XX 29-JUL-2004 (first entry)
XX
XX AA486238-derived oligonucleotide SEQ ID 6526.

```

KW pulmonary transplantation rejection; ss; primer.  
 XX Homo sapiens.  
 XX WO200285309-A2.  
 PN 31-OCT-2002.  
 PD 23-APR-2002; 2002WO-US013143.  
 XX 24-APR-2001; 2001US-0286036P.  
 PR (EPIC-) EPIGENESIS PHARM INC.  
 XX  
 PA Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 PI WPI; 2003-093058/08.  
 DR Pharmaceutical composition for treating asthma, has antisense  
 XX oligonucleotide containing less percentage of adenosine, targeted to  
 PT nucleic acids associated with lung airway or lung dysfunction, and  
 PT bronchodilating agent.  
 PT Claim 15; SEQ ID NO 6526; 763pp; English.  
 PS  
 XX This invention describes a novel composition (a) a first active agent,  
 CC comprising oligonucleotides, effective for alleviating  
 CC bronchoconstriction, respiratory tract inflammation, allergies and  
 CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
 CC surfactant depletion or hyposecretion, when administered to a mammal. The  
 CC oligonucleotides are derived from a gene encoding or regulating  
 CC expression of a target polypeptide associated with lung airway or lung  
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
 CC The invention also describes a kit, that comprises: (a) a delivery  
 CC device, in separate containers, (b) the oligonucleotides, (c)  
 CC instructions for adding a carrier and for use of the kit. The composition  
 CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
 CC beta-adrenergic agonist. The composition is useful for preventing or  
 CC treating a respiratory, lung or malignant disease. The administered  
 CC composition comprises oligo and is administered to reduce the production  
 CC or availability, or to increase the degradation of the target mRNA or to  
 CC reduce the amount of target polypeptide present in the lungs. The  
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
 CC inflammation, allergies and/or surfactant hypoproduction are associated  
 CC with a disease or condition such as pulmonary vasoconstriction,  
 CC inflammation, allergies, asthma, impeded respiration, respiratory  
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
 CC The reduced adenosine content of the anti-sense oligos corresponding to  
 CC thymidines present in the target RNA serves to prevent the breakdown of  
 CC the oligonucleotides into products that free adenosine into the system  
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
 CC prevent any unwanted effects due to it  
 XX  
 SQ Sequence 20 BP; 6 A; 4 C; 6 G; 4 T; 0 U; 0 Other;  
 Query Match 59.0%; Score 11.8; DB 11; Length 20;  
 Best Local Similarity 86.7%; Pred. No. 2.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 6 CATAGACTTCTCAGA 20  
 DB 19 CTTACACTTCTCAGA 5  
 |||||  
 RESULT 26  
 AAD11750/c  
 ID AAD11750 standard; DNA; 19 BP.  
 XX  
 AC AAD11750;  
 KW Homo sapiens.  
 XX  
 OS  
 XX  
 DE  
 XX  
 KW Human AAG6 DNA exon 1.13 amplifying reverse PCR primer #13.  
 XX  
 DE  
 XX  
 KW Human; asthma-associated gene; AAG6; antiinflammatory; gene therapy;  
 KW obstructive airway disease; asthma; chronic bronchitis; eosinophila;  
 KW adult respiratory distress syndrome; ARDS; dyspnoea; emphysema; COPD;  
 KW COAD; chronic obstructive or pulmonary disease; pneumoconiosis;  
 KW eosinophil related disorder; bronchopulmonary aspergillosis;  
 KW Loffler's syndrome; polyarteritis nodosa; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200155214-A2.  
 PD 02-AUG-2001.  
 XX  
 XX 23-JAN-2001; 2001WO-EP000719.  
 XX 25-JAN-2000; 2000US-00490616.  
 XX (NOVS ) NOVARTIS AG.  
 PA (NOVS ) NOVARTIS-ERFINDUNGEN VERW GES MBH.  
 PA  
 XX Whittaker PA, Jones SJ, Hanley MT;  
 PI WPI; 2001-457719/49.  
 DR  
 XX Novel polypeptide AAG6 useful for treating an inflammatory or obstructive  
 PT airways disease, e.g., asthma.  
 PT Example 2; Page 26; 62pp; English.  
 PS  
 XX The invention relates to human asthma-associated gene designated as AAG6.  
 CC AAG6 is used in the diagnosis, prognosis and treatment of inflammatory or  
 CC obstructive airway diseases such as asthma, adult respiratory distress  
 CC syndrome (ARDS), chronic obstructive or pulmonary disease (COPD or COAD),  
 CC chronic bronchitis, dyspnoea, emphysema and pneumoconiosis. AAG6 is also  
 CC used in the treatment of eosinophil related disorders such as  
 CC eosinophila, eosinophilic pneumonia, Loffler's syndrome, bronchopulmonary  
 CC aspergillosis, polyarteritis nodosa and eosinophilic granuloma. AAG6 DNA  
 CC is useful in gene therapy. The present sequence is a PCR primer used for  
 CC amplifying human AAG6 DNA  
 XX  
 SQ Sequence 19 BP; 2 A; 5 C; 6 G; 6 T; 0 U; 0 Other;  
 Query Match 58.0%; Score 11.6; DB 4; Length 19;  
 Best Local Similarity 77.8%; Pred. No. 3.4e+04;  
 Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 1 GACCGCATAGACTTCTCA 18  
 DB 18 GACGGCAGCGACATCTCA 1  
 |||||  
 RESULT 27  
 ABK41518  
 ID ABK41518 standard; DNA; 20 BP.  
 XX  
 AC ABK41518;  
 XX  
 DT 21-MAY-2002 (first entry)  
 XX  
 XX Human CTNNA3 exon-specific upper PCR primer #5.  
 DE  
 XX Human; mouse; alpha-catenin; primer; ss; cytostatic; antiinfertility;  
 KW cadherin-catenin related pathway; heart testis; cancer; gene therapy;  
 KW cadherin-catenin related disease; specifically dilated cardiomyopathy;  
 KW cardiomyopathy; male infertility; CTNNA3; PCR; alpha T-catenin.  
 XX  
 OS Homo sapiens.  
 XX

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PN WO200204636-A1.
XX
XX 17-JAN-2002.
XX
XX 28-JUN-2001; 2001WO-BP007392..
XX
XX 12-JUL-2000; 2000EP-00202472.
XX
XX 14-JUL-2000; 2000US-0218309P.
XX
XX (VLA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.
XX
XX Van Roy F, Goossens S, Janssens B, Vampoucke G;
XX WPI; 2002-171717/22.
XX
XX New alpha catenin polypeptides and polynucleotides encoding them, useful
XX for predicting, diagnosing or treating cadherin-catenin related diseases,
XX particularly cardiomyopathies, cancer and male infertility.
XX
XX Example; Page 35; 132pp; English.
XX
XX The invention relates to human and mouse alpha-catenin polypeptides and
XX their associated polynucleotides. The polypeptides and related antibodies
XX are useful for modulating the cadherin-catenin related pathway in
XX selected organs, such as the heart and testis. The nucleic acids and the
XX antibodies are useful in the diagnosis and/or prediction of the
XX likelihood of developing cadherin-catenin related diseases. The nucleic
XX acids may also be used to predict the likelihood of developing cancer or
XX in diagnosing cancer, and in gene therapy. The polypeptide, the nucleic
XX acid or the antibody is useful in manufacturing a medicament for treating
XX cadherin-catenin related diseases, such as cancer, cardiomyopathy,
XX specifically dilated cardiomyopathy, and male infertility. Sequences
XX ABK41510-ABK41599 represent PCR primers used to amplify DNA encoding
XX human and mouse alpha-catenin polypeptides, including the CTNNA3 gene
XX which encodes human alpha T-catenin
XX
XX Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 58.0%; Score 11.6; DB 6; Length 20;
XX Best Local Similarity 77.8%; Pred. No. 3.4e+04;
XX Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
XX QY 1 GACCGCATAGACTTCTCA 18
XX ||||| ||||| |||||
XX Db 2 GACTGAACAGGCTTCTCA 19
XX
XX RESULT 28
XX ABS59713
XX ID ABS59713 standard; DNA; 20 BP.
XX
XX AC ABS59713;
XX
XX 05-NOV-2002 (first entry)
XX
XX Human damage specific DNA binding protein 1 antisense oligonucleotide #5.
XX
XX Antisense; cytostatic; hepatotrophic; antiinflammatory; virucide;
XX Damage-specific DNA-binding protein 1; p127; cancer; human; es;
XX hyperproliferative disorder; haematopoietic cancer; hepatitis.
XX
XX Homo sapiens.
XX Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= a
XX /mod_base= m5c
XX /note= "All cytosines are 5-methyl cytosine"
XX modified_base 1..20
XX /tag= c
XX /mod_base= OTHER
XX /note= "OTHER= phosphorothioate backbone"
XX

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FT modified_base 1..5
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-methoxyethyl nucleotide"
FT modified_base 16..20
FT /tag= d
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-methoxyethyl nucleotide"
XX
XX WO200246206-A1.
XX
XX 13-JUN-2002.
XX
XX 04-DEC-2001; 2001WO-US046485.
XX
XX 06-DEC-2000; 2000US-00731457.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Popoff I, Wyatt JR;
XX
XX WPI; 2002-599454/64.
XX
XX Novel antisense compound targeted to nucleic acid molecule encoding
XX Damage-specific DNA-binding protein 1, p127, useful for treating animal
XX having disease associated with the protein such as liver cancer, or
XX hepatitis.
XX
XX Page 89; Claim 3; 121pp; English.
XX
XX This invention relates to a novel antisense compound 8 to 50 nucleobases
XX in length targeted to nucleic acid molecule encoding Damage-specific DNA-
XX binding protein 1, p127 where the antisense compound specifically
XX hybridises with and inhibits expression of the damage specific DNA
XX binding protein-1 gene. The compounds of the invention may be used in
XX antisense therapy as an inhibitor of expression of Damage-specific DNA-
XX binding protein 1, p127. The antisense compounds of the invention are
XX useful for inhibiting the expression of damage specific DNA binding
XX protein 1, p127 in cells or tissues and are also useful for treating an
XX animal having a disease or condition associated with expression of p127,
XX such as a hyperproliferative disorder (e.g., cancer such as breast, skin,
XX liver, or haematopoietic cancer), or hepatitis, by inhibiting the
XX expression of p127. All antisense oligonucleotides of the invention are
XX chimeric oligonucleotides (gapmers) 20 nucleotides in length, composed of
XX a central gap region consisting of ten 2'-deoxynucleotides, which are
XX flanked on both sides (5' and 3' directions) by five- nucleotide wings.
XX The wings are composed of 2'-methoxyethyl (2'-MOE) nucleotides. The
XX internucleoside (backbone) linkages are phosphorothioate (P=S) throughout
XX the oligonucleotide and all cytidine residues are 5-methylcytidines. The
XX present sequence represents a damage-specific DNA binding protein 1, p127
XX antisense oligonucleotide of the invention
XX
XX SQ Sequence 20 BP; 7 A; 5 C; 2 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 58.0%; Score 11.6; DB 6; Length 20;
XX Best Local Similarity 77.8%; Pred. No. 3.4e+04;
XX Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
XX QY 1 GACCGCATAGACTTCTCA 18
XX ||||| ||||| |||||
XX Db 2 GACCATAGATCTCTAA 19
XX
XX RESULT 29
XX ADK78853/c
XX ID ADK78853 standard; DNA; 20 BP.
XX
XX AC ADK78853;
XX
XX 20-MAY-2004 (first entry)
XX
XX Chimeric phosphorothioate oligonucleotide to target Nav1.3 #6187.
XX

```





PT New antisense compound targeted to a nucleic acid molecule encoding  
 PT Navl.3, useful for treating a disease or condition associated  
 PT with Navl.3, e.g. pain, seizure disorder such as childhood seizure  
 PT disorder, or ataxia.

PS Claim 4; SEQ ID NO 6186; 417pp; English.

XX The present invention relates to an antisense compound targeted to a  
 CC nucleic acid molecule encoding Navl.3, where the antisense compound  
 CC specifically hybridizes with and inhibits the expression of Navl.3. The  
 CC compound and composition are useful for treating a disease or condition  
 CC associated with Navl.3, e.g. pain including but not limited to  
 CC neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain,  
 CC diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain,  
 CC pain from burns, migraine headache, cluster headache, mild-to-moderate  
 CC headache; seizure disorder such as childhood seizure disorder, including  
 CC but not limited to neonatal or infantile epilepsy; or ataxia. The present  
 CC sequence represents a chimeric phosphorothioate oligonucleotide with  
 CC 2'MOE wings and a deoxy gap. Used during the antisense inhibition of  
 CC human Navl.3 expression, the oligonucleotides are designed to target  
 CC different regions of the human Navl.3 RNA.

XX Sequence 20 BP; 7 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 58.0%; Score 11.6; DB 12; Length 20;

Best Local Similarity 77.8%; Pred. No. 3.4e+04;

Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCA 18

DB 18 GACTGCTTAGAGTTTCA 1

RESULT 32

AAT55168

ID AAT55168 standard; RNA; 15 BP.

AC AAT55168;

DT 25-MAR-2003 (revised)

DT 22-APR-1997 (first entry)

XX Human relA hammerhead ribozyme target sequence (nt. position 1704).

XX Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;  
 KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;  
 KW intercellular adhesion molecule; rel A; tumour necrosis factor;  
 KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;  
 KW translocation; chronic myelogenous leukaemia; CML; cancer;  
 KW Philadelphia chromosome; inflammation; autoimmune disease;  
 KW atherosclerosis; myocardial infarction; stroke; restenosis;  
 KW transplant rejection; rheumatoid arthritis; psoriasis;  
 KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;  
 KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;  
 KW ss.

OS Homo sapiens.

PN WO9523225-A2.

XX 31-AUG-1995.

XX 23-FEB-1995;

XX 95WO-IB000156.

XX 23-FEB-1994;

XX 94US-00201109.

XX 29-MAR-1994;

XX 94US-00218934.

XX 04-APR-1994;

XX 94US-00222795.

XX 07-APR-1994;

XX 94US-00224483.

XX 15-APR-1994;

XX 94US-00227958.

XX 15-APR-1994;

XX 94US-00228041.

XX 18-MAY-1994;

XX 94US-00245736.

XX 06-JUL-1994;

XX 94US-00271280.

XX 15-AUG-1994;

XX 94US-00291932.

PR 16-AUG-1994;

PR 94US-00291433.

PR 17-AUG-1994;

PR 94US-00292620.

PR 19-AUG-1994;

PR 94US-00293520.

PR 02-SEP-1994;

PR 94US-00300000.

PR 08-SEP-1994;

PR 94US-00303039.

PR 23-SEP-1994;

PR 94US-00311486.

PR 23-SEP-1994;

PR 94US-00311749.

PR 28-SEP-1994;

PR 94US-00314397.

PR 03-OCT-1994;

PR 94US-00316771.

PR 07-OCT-1994;

PR 94US-00319492.

PR 11-OCT-1994;

PR 94US-00321993.

PR 04-NOV-1994;

PR 94US-00334847.

PR 10-NOV-1994;

PR 94US-00337608.

PR 28-NOV-1994;

PR 94US-00345516.

PR 16-DEC-1994;

PR 94US-00357577.

PR 23-DEC-1994;

PR 94US-00363233.

PR 30-JAN-1995;

PR 95US-00380734.

XX (RIBO-) RIBOZYME PHARM INC.

XX Stinchcomb DT, Chowira B, Dorenzo A, Draper KG, Dudycz LW;

PI Grimm S, Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;

PI Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;

PI Tracz D, Usman N, Wincott FE, Woolf T;

WPI; 1995-351090/45.

XX Ribozymes having modified bases and methods for producing them - for use

PT in inhibiting disease related genes.

XX Claim 2; Page 229; 407pp; English.

XX The present sequence represents a preferred target sequence for an

CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves relA mRNA at the

CC nucleotide base position indicated in the DE line. The relA gene product

CC is a subunit of the transcriptional regulator NF-kappaB and is implicated

CC specifically in the induction of inflammatory responses. Regions of the

CC mRNA that do not form secondary folding structures and that contain

CC potential hammerhead and hairpin ribozyme cleavage sites were identified

CC by computer analysis. Ribozymes directed against these mRNA sequences

CC were designed and synthesised with modifications that improve their

CC nuclease resistance. The ribozymes are designed to cleave the target

CC sequences and thereby inhibit relA expression, making them potentially

CC useful for treating rheumatoid arthritis, restenosis and asthma as well

CC as for increasing tolerance to transplanted tissues. The potential

CC immunosuppressive properties of a ribozyme that cleaves relA mRNA means

CC that uses are limited to local delivery, acute indications or ex vivo

CC treatment. (Updated on 25-MAR-2003 to correct PI field.)

XX Sequence 15 BP; 3 A; 5 C; 3 G; 0 T; 4 U; 0 Other;

SQ Query Match 57.0%; Score 11.4; DB 2; Length 15;

Best Local Similarity 61.5%; Pred. No. 4.2e+04;

Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19

DB 1 AUGGACUUCUCAG 13

RESULT 33

ACA09062

ID ACA09062 standard; RNA; 17 BP.

XX ACA09062;

XX 03-JUN-2003 (first entry)

XX NFKB sub-unit modulating amberzyme substrate #225.

XX Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;

XX G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;

XX lung cancer; prostate cancer; colorectal cancer; brain cancer;

KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;  
KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;  
KW chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;  
KW cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;  
KW gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
XX  
XX Homo sapiens.  
OS  
XX  
XX US2002177568-A1.  
XX  
XX 28-NOV-2002.  
XX  
XX 23-MAY-2001; 2001US-00864785.  
XX  
XX 07-DEC-1992; 92US-00987132.  
XX 18-MAY-1994; 94US-00245466.  
XX 15-AUG-1994; 94US-00291932.  
XX 23-DEC-1996; 96US-00779916.  
XX  
XX (STIN/) STINCHOMB D T.  
XX (MCSW/) MCSWIGGEN J.  
XX (DRAP/) DRAPER K G.  
XX  
XX Stinchcomb DT, Mcswiggen J, Draper KG;  
PI  
XX  
XX WPI; 2003-340953/32.  
XX  
XX Novel enzymatic nucleic acid molecules which down regulates expression of  
PT a sequence encoding a subunit of nuclear factor kappa B useful for  
PT treating cancer, inflammatory disorders and autoimmune diseases.  
XX  
XX Claim 3; Page 55; 72pp; English.  
XX  
XX The invention describes an enzymatic nucleic acid molecule (I) which down  
CC regulates expression of a sequence encoding a subunit of nuclear factor  
CC kappa B (NFkB), where (I) is an inozyme, zynzyme, G-cleaver or amberzyme  
CC configuration. The enzymatic nucleic acid molecule is adapted to treat  
CC cancer and is useful for down-regulating REL-A activity in a cell, for  
CC treating a patient having a condition associated with the level of REL-A.  
CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
CC the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
CC antisense nucleic acid molecules are useful for treating breast, lung,  
CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
CC multidrug resistant cancer. The method involves use of other drug  
CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,  
CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,  
CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic  
CC acid molecules are also useful for treating inflammatory disease such as  
CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
CC rejection, gene therapy applications, ischaemia/reperfusion injury  
CC (central nervous system (CNS) and myocardial), glomerulonephritis,  
CC sepsis, allergic airway inflammation, inflammatory bowel disease or  
CC infection. This sequence represents the substrate of a novel enzymatic  
CC nucleic acid molecule  
XX  
XX Sequence 17 BP; 4 A; 5 C; 4 G; 0 T; 4 U; 0 Other;  
Query Match 57.0%; Score 11.4; DB 8; Length 17;  
Best Local Similarity 61.5%; Pred. No. 4.3e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;  
OY 6 CATAGACTTCTCA 18  
DB 5 CAUGGACUUCUA 17

RESULT 34  
ADI47785/c  
ID ADI47785 standard; DNA; 17 BP.  
XX  
XX AC ADI47785;  
XX  
XX DT 15-APR-2004 (first entry)  
XX  
XX DE Human tumour suppression/reversion-related DNA sequence SeqID288.  
XX  
XX KW tumour suppression; tumour reversion; apoptosis; virus resistance;  
KW cytoskeletal; virucide; neuroprotective; nontropic; neuroleptic; probe;  
KW primer; PCR; gene chip; antisense; viral disease; tumour;  
KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO2003025177-A2.  
XX  
XX PD 27-MAR-2003.  
XX  
XX PF 17-SEP-2002; 2002WO-IB004523.  
XX  
XX PR 17-SEP-2001; 2001FR-00011980.  
XX  
XX PA (MOLE-) MOLECULAR ENGINES LAB.  
XX  
XX PI Telerman A, Amson R, Tuijnder M;  
XX  
XX DR WPI; 2003-313354/30.  
XX  
XX PT New isolated nucleic acid, useful for treating viral diseases associated  
PT with tumors and cell degeneration, also related polypeptides, antibodies  
PT and transfected cells.  
XX  
XX PS Disclosure; SEQ ID NO 288; 30pp; French.  
XX  
XX CC This invention relates to novel isolated nucleic acid sequences involved  
CC in the phenomena of tumour suppression, tumour reversion, apoptosis  
CC and/or resistance to viruses. The invention may be useful for the  
CC development of compounds with a cytostatic, virucide, neuroprotective,  
CC nontropic or neuroleptic activity. The DNA sequences may be useful as  
CC probes and primers for detecting, indentifying, quantifying and/or  
CC amplifying nucleic acid, for example as one component of a gene chip, in  
CC vitro as antisense reagents and for production of recombinant  
CC polypeptides. The invention may therefore be useful for preparation of  
CC pharmaceuticals for prevention and/or treatment of viral diseases that  
CC are characterised by development and/or tumours or cell degeneration,  
CC specifically cancer but also Alzheimer's disease and schizophrenia. The  
CC present sequence is that of a nucleic acid sequence of the invention.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/publishedpct\_sequences  
XX  
XX SQ Sequence 17 BP; 6 A; 4 C; 3 G; 0 T; 0 U; 0 Other;  
Query Match 57.0%; Score 11.4; DB 10; Length 17;  
Best Local Similarity 92.3%; Pred. No. 4.3e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
OY 8 TAGACTTCTCAGA 20  
DB 15 TAGAGTTCTCAGA 3  
RESULT 35  
AAA83653/c  
ID AAA83653 standard; DNA; 19 BP.  
XX  
XX AC AAA83653;  
XX  
XX DT 04-DEC-2000 (first entry)

```

XX cdk-we-hu ribozyme binding site #128.
DE
XX
KW Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
XX
OS Mammalia.
XX
PN WO200032765-A2.
XX
PD 08-JUN-2000.
XX
PF 06-DEC-1999; 99WO-US028772.
XX
PR 04-DEC-1998; 98US-0110954P.
XX
PA (IMMU-) IMMUSOL INC.
XX
PI Tritz R, Welch PJ, Barber JR, Robbins JM;
XX
DR WPI; 2000-412314/35.
XX
XX New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves
PT RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,
PCNA and Cyclin B1.
XX
PS Disclosure; Page 65; 109pp; English.
XX
CC The present invention relates to a hairpin or hammerhead ribozyme,
CC designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase
CC other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
CC Representative examples of ribozyme recognition sites are given in
CC AAA82415 to AAA86787. The ribozyme of the invention is useful for
CC inhibiting restenosis by introduction of the ribozyme into cells. The
CC ribozyme is resistant to endonuclease activity and hence is efficient in
CC restenosis treatment
XX
SQ Sequence 19 BP; 7 A; 2 C; 5 G; 5 T; 0 U; 0 Other;
Query Match 57.0%; Score 11.4; DB 3; Length 19;
Best Local Similarity 92.3%; Pred. No. 4.3e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 5 GCATAGACTTCTC 17
DB 13 GCATATACTTCTC 1
RESULT 36
AAA83652/C
ID AAA83652 standard; DNA; 19 BP.
AC AAA83652;
XX
XX 04-DEC-2000 (first entry)
DE
XX cdk-we-hu ribozyme binding site #127.
XX
KW Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
OS Mammalia.
XX
PN WO200032765-A2.
XX
PD 08-JUN-2000.
XX
PF 06-DEC-1999; 99WO-US028772.
XX
PR 04-DEC-1998; 98US-0110954P.
XX
PA (IMMU-) IMMUSOL INC.
XX
PI Tritz R, Welch PJ, Barber JR, Robbins JM;
XX
XX
Query Match 57.0%; Score 11.4; DB 3; Length 19;
Best Local Similarity 92.3%; Pred. No. 4.3e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 5 GCATAGACTTCTC 17
DB 13 GCATATACTTCTC 1
RESULT 36
AAA83652/C
ID AAA83652 standard; DNA; 19 BP.
AC AAA83652;
XX
XX 04-DEC-2000 (first entry)
DE
XX cdk-we-hu ribozyme binding site #127.
XX
KW Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
OS Mammalia.
XX
PN WO200032765-A2.
XX
PD 08-JUN-2000.
XX
PF 06-DEC-1999; 99WO-US028772.
XX
PR 04-DEC-1998; 98US-0110954P.
XX
PA (IMMU-) IMMUSOL INC.
XX
PI Tritz R, Welch PJ, Barber JR, Robbins JM;
XX
XX
Query Match 57.0%; Score 11.4; DB 3; Length 19;
Best Local Similarity 92.3%; Pred. No. 4.3e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 5 GCATAGACTTCTC 17
DB 15 GCATATACTTCTC 3
RESULT 37
AAH58814/C
ID AAH58814 standard; DNA; 19 BP.
XX
AC AAH58814;
XX
XX 10-SEP-2001 (first entry)
DE
DE Cdk-we-hu ribozyme binding site SEQ ID NO:1238.
XX
KW Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
KW recognition site; target; ribozyme binding site; eye disease; vulnary;
KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;
KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;
KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;
KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;
KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;
KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;
KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
KW sickle cell retinopathy; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
PN WO200130362-A2.
XX
PD 03-MAY-2001.
XX
XX 26-OCT-2000; 2000WO-US029500.
XX
XX 26-OCT-1999; 99US-0161532P.
XX
XX (IMMU-) IMMUSOL INC.
XX
XX Robbins JM, Tritz R;
XX
XX WPI; 2001-300427/31.
XX
XX Treating proliferative skin or eye diseases and scarring, using ribozymes
PT that cleave RNA encoding cytokines involved in inflammation, matrix
PT metalloproteinases, growth factors and cell-cycle dependent kinases.
XX
XX Example 1; Page 162; 408pp; English.
XX
XX The present invention describes a method for treating a proliferative
CC
```

CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX  
 SQ Sequence 19 BP; 7 A; 2 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 5; Length 19;  
 Best Local Similarity 92.3%; Pred. No. 4.3e+04;  
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 5 GCATAGACTTCTC 17  
 DB 15 GCATATACCTCTC 3

RESULT 39  
 AAH58815/C  
 ID AAH58815 standard; DNA; 19 BP.  
 AC AAH58815;  
 XX  
 DT 10-SEP-2001 (first entry)  
 XX  
 DE Cdk-we-hu ribozyme binding site SEQ ID NO:1239.  
 XX  
 KW Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
 KW recognition site; target; ribozyme binding site; eye disease; vulnary;  
 KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
 KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
 KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;  
 KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
 KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;  
 KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
 KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
 KW sickle cell retinopathy; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO200130362-A2.  
 XX  
 PD 03-MAY-2001.  
 XX  
 XX 26-OCT-2000; 2000WO-US029500.  
 XX  
 XX 26-OCT-1999; 99US-0161532P.  
 XX  
 XX (IMMU-) IMMUSOL INC.  
 XX  
 XX Robbins JM, Tritz R;  
 XX  
 XX WPI; 2001-300427/31.  
 XX  
 XX Treating proliferative skin or eye diseases and scarring, using ribozymes  
 PT that cleave RNA encoding cytokines involved in inflammation, matrix  
 PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
 XX  
 XX Example 1; Page 162; 408pp; English.

XX The present invention describes a method for treating a proliferative  
 CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX  
 SQ Sequence 19 BP; 6 A; 3 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 5; Length 19;  
 Best Local Similarity 92.3%; Pred. No. 4.3e+04;  
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 5 GCATAGACTTCTC 17  
 DB 13 GCATATACCTCTC 1

RESULT 39  
 ADQ61886/C  
 ID ADQ61886 standard; RNA; 19 BP.  
 AC ADQ61886;  
 XX  
 DT 09-SEP-2004 (first entry)  
 XX  
 DE Anti-KCNH1 siRNA SEQ ID NO:1588.  
 XX  
 KW ss; siRNA; gene silencing; Bcl-2; optimised; short interfering RNA;  
 KW RNA interference.  
 XX  
 OS Synthetic.  
 XX  
 PN WO2004045543-A2.  
 XX  
 PD 03-JUN-2004.  
 XX  
 XX 14-NOV-2003; 2003WO-US036787.  
 XX  
 XX 14-NOV-2002; 2002US-0426137P.  
 XX  
 XX 10-SEP-2003; 2003US-0502050P.  
 XX  
 XX (DHAR-) DHARMACON INC.  
 XX  
 XX Anastasia K, Angela R, Devin L, William M, Stephen S;  
 XX  
 XX WPI; 2004-420527/39.  
 XX  
 XX Selecting siRNA by selecting an siRNA molecule of 19-25 nucleoside bases  
 PT by selecting a target gene and measuring the functionality of the  
 PT nucleotide sequences that are complementary to a stretch of nucleotides  
 PT of the target sequence.  
 XX  
 XX Example 12; SEQ ID NO 1588; 199pp; English.  
 PS  
 XX The invention relates to a novel method for selecting siRNA (short  
 CC interfering RNA) comprising selecting an siRNA molecule of 19-25  
 CC nucleoside bases by selecting a target gene and measuring the  
 CC functionality of sequences of 19-25 nucleotides in length that are

CC substantially complementary to a stretch of nucleotides of the target  
CC sequence, where the functionality is dependent upon non-target specific  
CC criteria. Also claimed are methods for gene-silencing, developing an  
CC siRNA algorithm for selecting siRNA, selecting an siRNA with improved  
CC functionality, selecting hyperfunctional siRNA, an siRNA molecule  
CC effective at silencing Bel-2, and a kit for gene silencing comprising the  
CC siRNA. The siRNA molecule comprises a sequence substantially similar to a  
CC sequence consisting of GGAGAUUGAUGAAGUA: GAAGUACUCCUAGUUUAG;  
CC GUACGACACCGGGAUA; AGAUGAUGAUGAAGUACAU; UGAAGACUCUCCUAGUUU;  
CC CAUGGCGCCUCUGUUUGA; UCGCGCCUCUGUUUGAUUU; GAGAUGAUGAUGAAGUACA;  
CC GGAGAUUGAUGAAGUAC; and GAAGACUCUCCUAGUUUUG. The siRNA molecule  
CC comprises a sense strand and an anti-sense strand. The siRNA molecule  
CC comprises a hairpin. The siRNA molecule comprises between 18 and 30 base  
CC pairs. The kit comprises at least two siRNA, comprising a first optimised  
CC siRNA and a second optimised siRNA. The method is useful in selecting  
CC siRNA for generating a gene silencing reagent. The present sequence is  
CC used in the exemplification of the invention.

XX  
SQ Sequence 19 BP; 6 A; 2 C; 5 G; 0 T; 6 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 12; Length 19;  
Best Local Similarity 92.3%; Pred. No. 4.3e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 7 ATAGACTTCTCAG 19  
Db 14 ATAGACTTCTCAG 2

RESULT 40  
AAX77133/c  
ID AAX77133 standard; DNA; 20 BP.  
XX  
AC AAX77133;  
XX  
DT 03-AUG-1999 (first entry)  
XX  
DE PCR primer 92-5'.  
XX  
KW Cellular senescence; modulator; GC6 gene; senescent gene expression;  
KW pGC6; human; PCR primer; ss.  
XX  
OS Synthetic.  
XX  
PN WO925878-A2.  
XX  
PD 27-MAY-1999.  
XX  
PF 19-NOV-1998; 98WO-US024996.  
XX  
PR 19-NOV-1997; 97US-00974180.  
XX  
PA (GERO-) GERON CORP.  
XX  
PI Funk W;  
XX  
DR WPI; 1999-347496/29.  
XX  
PT New human GC6 gene, useful for identifying agents for treating diseases  
PT and/or conditions associated with cell senescence.  
XX  
PS Example 5; Page 74; 79pp; English.  
XX  
CC The invention relates to methods for modulating and identifying cellular  
CC senescence. Recombinant expression vectors comprising a recombinant  
CC polynucleotide corresponding to a polynucleotide in a human GC6 gene, are  
CC useful for altering senescent gene expression. The vectors and host cells  
CC comprising the vectors are useful for identifying agents that prevent or  
CC modulate senescent gene expression. The polynucleotides are useful for  
CC producing the protein, pGC6 and nucleic acid derivatives. The proteins  
CC encoded are useful for raising antibodies specific for pGC6, which are  
CC useful for isolating pGC6, and for detecting cells comprising pGC6 in  
CC complex cell mixtures. The characterization of the polynucleotides enable

CC the identification of therapeutic agents that identify and distinguish  
CC between young and senescent cells. This enables treatment of aging  
CC diseases induced or exacerbated by cellular senescence

XX  
SQ Sequence 20 BP; 7 A; 6 C; 4 G; 3 T; 0 U; 0 Other;  
Query Match 57.0%; Score 11.4; DB 2; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.4e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 5 GCATGACTTCTC 17  
Db 13 GCATTGACTTCTC 1

Search completed: August 12, 2005, 11:15:32  
Job time : 244 secs

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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 11:05:14 ; Search time 96 Seconds  
(without alignments)

Title: US-09-743-825-10

Perfect score: 20

Sequence: 1 gaccgcatagacttctcaga 20

Scoring table: IDENTITY NUC

Scoring scale: 10.0 = Gapop 10.0, Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 401682

Minimum DB seq length: 0

|            |     |         |    |
|------------|-----|---------|----|
| Minimum DB | seq | length: | 0  |
| Maximum DB | seq | length: | 20 |

post-processing: Minimum Match 0%

Post-processing: Minimum Match 0%  
Maximum Match 100%

Maximum Match 100%  
Listing first 100 summaries

Database : Issued Patents NA: \*

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Database:
residue_sequences:
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5: /cgm2_6/ptodata/1/ina/PTCTUS_COMB.seq.*
6: /cgm2_6/ptodata/1/ina/backfiles1.seq.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score | Query |        | DB | ID                  | Description        |
|------------|-------|-------|--------|----|---------------------|--------------------|
|            |       | Match | Length |    |                     |                    |
| 1          | 13.8  | 69.0  | 20     | 4  | US-09-198-452A-2812 | Sequence 2812, Ap  |
| C 2        | 13.2  | 66.0  | 20     | 4  | US-10-007-010-48    | Sequence 48, Appl  |
| C 3        | 12.2  | 61.0  | 18     | 3  | US-09-1006-038A-75  | Sequence 75, Appl  |
| 4          | 12    | 60.0  | 20     | 1  | US-07-922-723A-60   | Sequence 60, Appl  |
| 5          | 12    | 60.0  | 20     | 1  | US-07-799-828C-60   | Sequence 60, Appl  |
| 6          | 12    | 60.0  | 20     | 1  | US-07-952-277A-60   | Sequence 60, Appl  |
| 7          | 12    | 60.0  | 20     | 3  | US-09-038-637-113   | Sequence 113, App  |
| C 8        | 11.8  | 59.0  | 18     | 1  | US-08-716-459-1     | Sequence 1, Appli  |
| 9          | 11.8  | 59.0  | 20     | 1  | US-08-819-912-8     | Sequence 8, Appli  |
| 10         | 11.4  | 57.0  | 15     | 1  | US-08-291-932A-389  | Sequence 289, App  |
| C 11       | 11.4  | 57.0  | 17     | 3  | US-08-434-511-4     | Sequence 4, Appli  |
| C 12       | 11.4  | 57.0  | 17     | 3  | US-08-229-150-4     | Sequence 4, Appli  |
| C 13       | 11.4  | 57.0  | 17     | 6  | 5401623-5           | Patent No. 5401629 |
| C 14       | 11.4  | 57.0  | 17     | 6  | 5401623-5           | Patent No. 5401629 |
| C 15       | 11.4  | 57.0  | 19     | 4  | US-09-696-791-1238  | Sequence 1238, Ap  |
| C 16       | 11.4  | 57.0  | 19     | 4  | US-09-696-791-1239  | Sequence 1239, Ap  |
| C 17       | 11.4  | 57.0  | 20     | 3  | US-08-974-180-35    | Sequence 35, Appl  |
| C 18       | 11.4  | 57.0  | 20     | 4  | US-10-148-806-20    | Sequence 20, Appl  |
| 19         | 11.4  | 57.0  | 20     | 4  | US-10-148-808-21    | Sequence 21, Appl  |
| C 20       | 11.2  | 56.0  | 18     | 4  | US-09-422-978-4697  | Sequence 4697, Ap  |
| 21         | 11.2  | 56.0  | 20     | 1  | US-07-977-284A-113  | Sequence 113, App  |
| 22         | 11.2  | 56.0  | 20     | 2  | US-08-256-426B-113  | Sequence 113, App  |
| C 23       | 11.2  | 56.0  | 20     | 3  | US-09-249-730-204   | Sequence 204, App  |
| C 24       | 11.2  | 56.0  | 20     | 3  | US-09-359-756-36    | Sequence 36, Appl  |
| C 25       | 11.2  | 56.0  | 20     | 4  | US-09-198-452A-3744 | Sequence 3744, Ap  |
| C 26       | 11.2  | 56.0  | 20     | 4  | US-09-249-247-204   | Sequence 204, App  |
| C 27       | 11.2  | 56.0  | 20     | 4  | US-09-975-123-28    | Sequence 28, Appl  |

ALIGNMENTS

```

RESULT 1
US-09-198-452A-2812
; Sequence 2812, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 2812
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-2812

Query Match          69.0%; Score 13.8; DB 4; Length 20;
Best Local Similarity 88.2%; Pred. No. 6e+02; 2; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GACCGCATAGACTTCTC 17
      |||||
Db      3 GACCGCATAACTTATC 19

RESULT 2
US-10-007-010-48/c
; Sequence 48, Application US/10007010
; Patent No. 6828151
; GENERAL INFORMATION:
; APPLICANT: Alexander H. Borchers
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF HCK EXPRESSION
; FILE REFERENCE: RTS-0345
; CURRENT APPLICATION NUMBER: US/10/007,010
; CURRENT FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 87
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-007-010-48

Query Match          66.0%; Score 13.2; DB 4; Length 20;
Best Local Similarity 83.3%; Pred. No. 1.3e+03;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 ACCGCATAGACTTCTCAG 19
      |||||
Db      20 AACTCATTGACTTCTCAG 3

RESULT 3
US-09-106-038A-75/c
; Sequence 75, Application US/09106038A
; Patent No. 6007995
; GENERAL INFORMATION:
; APPLICANT: Brenda F. Baker and Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF TNFR1
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 91
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Isis Pharmaceuticals, Inc.

```

```

; STREET: 2292 Paraday Avenue
; CITY: Carlsbad
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92008
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch disk, 1.44 Mb
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/106,038A
; FILING DATE: June 26, 1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Laurel Spear Bernstein
; REGISTRATION NUMBER: 37,280
; REFERENCE/DOCKET NUMBER: RTS-0004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (760) 931-9200
; TELEFAX: (760) 603-3820
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-106-038A-75

Query Match          61.0%; Score 12.2; DB 3; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.2e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      4 CGCATAGACTTCTCAGA 20
      |||
Db      18 CGCCAGTCTTCTCAGA 2

RESULT 4
US-07-922-723A-60
; Sequence 60, Application US/07922723A
; Patent No. 5369004
; GENERAL INFORMATION:
; APPLICANT: Dra. Mihael H. Polymetopoulos
; APPLICANT: and Carl R. Merzil
; TITLE OF INVENTION: FIVE HIGHLY INFORMATIVE
; TITLE OF INVENTION: REPEAT POLYMORPHIC DNA MARKERS
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lowe, Price, LeBlanc & Becker
; STREET: Suite 300, 99 Canal Center Plaza
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22314
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: DOS Text File
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/922,723A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: D.J. Mills
; REGISTRATION NUMBER: 34506
; REFERENCE/DOCKET NUMBER: 717081B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703 684 1111
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20

```



TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-07-922-723A-60

Query Match 60.0%; Score 12; DB 1; Length 20;  
Best Local Similarity 75.0%; Pred. No. 5.5e+03;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20  
|||||  
Db 1 GACCCACAGCCTATTTCAGA 20

## RESULT 5

US-07-799-828C-60  
Sequence 60, Application US/07799828C  
Patent No. 5378602

## GENERAL INFORMATION:

APPLICANT: Drs. Carl R. Merrill and  
Mihael H. Polymeropoulos

TITLE OF INVENTION: TWENTY SEVEN HIGHLY INFORMATIVE

TITLE OF INVENTION: MICROSATELLITE REPEAT

TITLE OF INVENTION: POLYMORPHIC DNA MARKERS

NUMBER OF SEQUENCES: 63

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lowe, Price, LeBlanc & Becker

STREET: Suite 300, 99 Canal Center Plaza

CITY: Alexandria

STATE: Virginia

COUNTRY: USA

ZIP: 22314

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: DOS Text File

CURRENT APPLICATION DATA: US/07/799,828C

FILING DATE: 19911127

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: D.J. Mills

REGISTRATION NUMBER: 34,506

REFERENCE/DOCKET NUMBER: 717081A

TELEPHONE: 703 684 1111

INFORMATION FOR SEQ ID NO: 60:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: NUCLEIC ACID

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-07-799-828C-60

Query Match 60.0%; Score 12; DB 1; Length 20;  
Best Local Similarity 75.0%; Pred. No. 5.5e+03;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20  
|||||  
Db 1 GACCCACAGCCTATTTCAGA 20

## RESULT 6

US-07-952-277A-60

Sequence 60, Application US/07952277A

Patent No. 5861504

GENERAL INFORMATION:

APPLICANT: Drs. Mihael H. Polymeropoulos

APPLICANT: and Carl R. Merrill

TITLE OF INVENTION: ELEVEN HIGHLY INFORMATIVE  
TITLE OF INVENTION: REPEAT POLYMORPHIC DNA MARKERS  
NUMBER OF SEQUENCES: 85  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lowe, Price, LeBlanc & Becker  
STREET: Suite 300, 99 Canal Center Plaza  
CITY: Alexandria  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22314

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: DOS Text File

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/952,277A

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: D.J. Mills

REGISTRATION NUMBER: 34506

REFERENCE/DOCKET NUMBER: 717081C

TELEPHONE: 703 684 1111

INFORMATION FOR SEQ ID NO: 60:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-07-952-277A-60

Query Match 60.0%; Score 12; DB 2; Length 20;  
Best Local Similarity 75.0%; Pred. No. 5.5e+03;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20  
|||||  
Db 1 GACCCACAGCCTATTTCAGA 20

## RESULT 7

US-09-038-637-113

Sequence 113, Application US/09038637

Patent No. 6235470

GENERAL INFORMATION:

APPLICANT: Sidransky, David

TITLE OF INVENTION: DETECTION OF NEOPLASIM BY ANALYSIS OF SALIVA

NUMBER OF SEQUENCES: 195

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.

STREET: 4225 Executive Square, Suite 1400

CITY: La Jolla

STATE: CA

COUNTRY: USA

ZIP: 92037

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows 95

SOFTWARE: FastSeq for Windows Version 2.0b

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/038,637

FILING DATE: 10-MAR-1998

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/579,233

FILING DATE: 28-DEC-1995

APPLICATION NUMBER: 08/152,313

FILING DATE: 12-NOV-1993

ATTORNEY/AGENT INFORMATION:

NAME: Haile, Lisa A.

REGISTRATION NUMBER: 38,347  
REFERENCE/DOCKET NUMBER: 07265/146001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619/678-5070  
TELEFAX: 619/678-5099  
INFORMATION FOR SEQ ID NO: 113:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Genomic DNA  
US-09-038-637-113

Query Match 60.0%; Score 12; DB 3; Length 20;  
Best Local Similarity 75.0%; Pred. No. 5.5e+03;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GACCGCATAGACTTCTCAGA 20  
Db 1 GACCCACAGCCGTAATTCAGA 20

## RESULT 8

US-08-716-459-1/c  
Sequence 1, Application US/08716459  
Patent No. 5821062  
GENERAL INFORMATION:  
APPLICANT: KOMAI, Koichiro  
APPLICANT: KANEKO, Hideo  
APPLICANT: NAKATSUKA, Iwao  
TITLE OF INVENTION: OLIGONUCLEOTIDE FOR USE IN CHECKING  
TITLE OF INVENTION: PRESENCE OR ABSENCE OF MUTATION IN  
TITLE OF INVENTION: HUMAN-DERIVED CYTOCHROME P45011C18 GENE  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kolasch & Birch, LLP  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb  
COMPUTER: IBM PC  
OPERATING SYSTEM: IBM DOS Version 5.00  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/716,459  
FILING DATE: 27 SEPTEMBER 1996  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP-059385/1994  
APPLICATION NUMBER: JP-059386/1994  
FILING DATE: 29-03-1994  
FILING DATE: 29-03-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: SVENSSON, Leonard R.  
REGISTRATION NUMBER: 30,330  
REFERENCE/DOCKET NUMBER: 20-4081PCT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 205-8000  
TELEFAX: (703) 205-8050  
TELEX: 248345  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Other nucleic acid synthetic DNA  
US-08-716-459-1

Query Match 59.0%; Score 11.8; DB 1; Length 18;  
Best Local Similarity 86.7%; Pred. No. 6.9e+03;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 CATAGACTTCTCAGA 20  
Db 16 CATAGACTTTTGAGA 2

## RESULT 9

US-08-819-912-8  
Sequence 8, Application US/08819912  
Patent No. 5795722  
GENERAL INFORMATION:  
APPLICANT: Lacroix, Jean-Michel  
APPLICANT: Dunn, James M.  
TITLE OF INVENTION: METHOD AND KIT FOR QUANTITATION AND  
TITLE OF INVENTION: NUCLEIC ACID SEQUENCING OF NUCLEIC ACID ANALYTES IN A SAMPLE  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Oppedahl & Larson  
STREET: 1992 Commerce Street Suite 309  
CITY: Yorktown  
STATE: NY  
COUNTRY: US  
ZIP: 10598  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage  
COMPUTER: IBM compatible  
OPERATING SYSTEM: MS DOS  
SOFTWARE: Word Perfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/819,912  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Larson, Marina T.  
REGISTRATION NUMBER: 32,038  
REFERENCE/DOCKET NUMBER: VGEN.P-039US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (914) 245-3252  
TELEFAX: (914) 962-4330  
TELEX:  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
HYPOTHETICAL: NO  
ANTI-SENSE: yes  
FRAGMENT TYPE: internal  
ORIGINAL SOURCE:  
ORGANISM: Chlamydia trachomatis  
FEATURE:  
OTHER INFORMATION: amplification primer CT1431F for cryptic  
OTHER INFORMATION: plasmid  
US-08-819-912-8

Query Match 59.0%; Score 11.8; DB 1; Length 20;  
Best Local Similarity 86.7%; Pred. No. 7e+03;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GCATAGACTTCTCAG 19  
Db 3 GCATAAATCTTCAG 17

## RESULT 10

US-08-291-932A-289  
; Sequence 289, Application US/08291932A  
; Patent No. 5658780  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: Draper, Kenneth G.  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RIBOZYME TREATMENT OF  
; TITLE OF INVENTION: DISEASES OR CONDITIONS  
; TITLE OF INVENTION: RELATED TO LEVELS OF  
; TITLE OF INVENTION: NF-KB  
; NUMBER OF SEQUENCES: 830  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/291,932A  
; FILING DATE: August 15, 1994  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; PRIOR APPLICATION DATA: including application  
; PRIOR APPLICATION DATA: described below:  
; APPLICATION NUMBER: 08/245,466  
; FILING DATE: May 18, 1994  
; APPLICATION NUMBER: 07/987,132  
; FILING DATE: December 7, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 208/157  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 289:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-291-932A-289

Query Match 57.0%; Score 11.4; DB 1; Length 15;  
Best Local Similarity 61.5%; Pred. No. 1.1e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
Db 1 AUGGACUUCUCAG 13  
|:|:|:|:|:|

RESULT 11  
US-08-434-511-4/c  
; Sequence 4, Application US/08434511  
; Patent No. 6057114  
; GENERAL INFORMATION:  
; APPLICANT: Akong, Anthony  
; APPLICANT: Harpold, Michael  
; APPLICANT: Velicelebi, Gonul  
; APPLICANT: Brust, Paul  
; TITLE OF INVENTION: AUTOMATED ANALYSIS EQUIPMENT AND ASSAY  
; TITLE OF INVENTION: METHOD FOR DETECTING CELL SURFACE PROTEIN FUNCTION USING SAME

; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Brown, Martin, Haller & McClain  
; STREET: 1660 Union Street  
; CITY: San Diego  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92101-2926  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/434,511  
; FILING DATE: 04-MAY-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/244,985  
; FILING DATE: 20-JUN-1994  
; APPLICATION NUMBER: PCT/US92/11090  
; FILING DATE: 18-DEC-1992  
; APPLICATION NUMBER: 07/812,254  
; FILING DATE: 20-DEC-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Seidman, Stephanie L.  
; REGISTRATION NUMBER: 33,779  
; REFERENCE/DOCKET NUMBER: 6362-9738  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-238-0999  
; TELEFAX: 619-238-0062  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Genomic DNA  
; HYPOTHEICAL: NO  
; ANTI-SENSE: NO  
; FRAGMENT TYPE:  
; ORIGINAL SOURCE:  
US-08-434-511-4

Query Match 57.0%; Score 11.4; DB 3; Length 17;  
Best Local Similarity 92.3%; Pred. No. 1.1e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
Db 13 ATAGATTCTCAG 1  
|:|:|:|:|:|

RESULT 12  
US-08-229-150-4/c  
; Sequence 4, Application US/08229150  
; Patent No. 6127133  
; GENERAL INFORMATION:  
; APPLICANT: Akong, Michael A.  
; APPLICANT: Harpold, Michael M.  
; APPLICANT: Velicelebi, G.  
; APPLICANT: Brust, Paul  
; TITLE OF INVENTION: AUTOMATED ANALYSIS EQUIPMENT AND ASSAY  
; TITLE OF INVENTION: PROTEIN FUNCTION USING SAME  
; FILE REFERENCE: 24735-51505B  
; CURRENT APPLICATION NUMBER: US/08/229,150  
; CURRENT FILING DATE: 1994-04-18  
; EARLIER APPLICATION NUMBER: 07/812,254  
; EARLIER FILING DATE: 1991-12-20  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4

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; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Oligonucleotide used for screening of products having
; OTHER INFORMATION: EcoRI site adjacent to initiation codon of human
; OTHER INFORMATION: HMI coding region
US-08-229-150-4

Query Match          57.0%; Score 11.4; DB 3; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19
Db 13 ATAGAATTCTCAG 1

RESULT 13
5401629-5/c
; Patent No. 5401629
; APPLICANT: HARPOLD, MICHAEL M.;BRUST, PAUL
; TITLE OF INVENTION: ASSAY METHODS AND COMPOSITIONS USEFUL
; FOR MEASURING THE TRANSDUCTION OF AN INTRACELLULAR SIGNAL
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/563,751
; FILING DATE: 07-AUG-1990
; SEQ ID NO:5:
; LENGTH: 17
5401629-5

Query Match          57.0%; Score 11.4; DB 6; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19
Db 13 ATAGAATTCTCAG 1

RESULT 14
5401629-5/c
; Patent No. 5401629
; APPLICANT: HARPOLD, MICHAEL M.;BRUST, PAUL
; TITLE OF INVENTION: ASSAY METHODS AND COMPOSITIONS USEFUL
; FOR MEASURING THE TRANSDUCTION OF AN INTRACELLULAR SIGNAL
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/563,751
; FILING DATE: 07-AUG-1990
; SEQ ID NO:5:
; LENGTH: 17
5401629-5

Query Match          57.0%; Score 11.4; DB 6; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19
Db 13 ATAGAATTCTCAG 1

RESULT 15
US-09-696-791-1238/c
; Sequence 1238, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; APPLICANT: Tritz, Richard
; OTHER INFORMATION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; SEQUENCE 1239, APPLICATION US/09696791
; PATENT NO. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; APPLICANT: Tritz, Richard
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: SKIN AND EYE DISEASES
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1239
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Cdk-we-hu ribozyme binding site
US-09-696-791-1239

Query Match          57.0%; Score 11.4; DB 4; Length 19;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTC 17
Db 15 GCATATACTTCTC 3

RESULT 16
US-09-696-791-1239/c
; Sequence 1239, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; APPLICANT: Tritz, Richard
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: SKIN AND EYE DISEASES
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1239
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Cdk-we-hu ribozyme binding site
US-09-696-791-1239

Query Match          57.0%; Score 11.4; DB 4; Length 19;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTC 17
Db 13 GCATATACTTCTC 1

RESULT 17
US-08-974-180-35/c
; Sequence 35, Application US/08974180
; Patent No. 6025194
; GENERAL INFORMATION:
; APPLICANT: Funk, Walter
; TITLE OF INVENTION: Methods for Modulating and Identifying
; TITLE OF INVENTION: Cellular Senescence
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Geron Corporation
; STREET: 230 Constitution Drive
; CITY: Menlo Park
; STATE: California
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
```

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/974,180  
FILING DATE: 19-NOV-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Kaster, Kevin R.  
REGISTRATION NUMBER: 32,704  
REFERENCE/DOCKET NUMBER: 206  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 473-7779  
TELEFAX: (650) 473-8654  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
NAME/KEY: -  
LOCATION: 1..20  
OTHER INFORMATION: /note="primer 92-5"  
US-08-974-180-35

Query Match 57.0%; Score 11.4; DB 3; Length 20;  
Best Local Similarity 92.3%; Pred. No. 1.1e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5 GCATGACTTCTC 17  
Db 13 GCATGACTTCTC 1

RESULT 18  
US-10-148-806-20/c  
Sequence 20, Application US/10148806  
Patent No. 6762042  
GENERAL INFORMATION:  
APPLICANT: Metzger, Michael  
APPLICANT: Liu, Xiaomei  
TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NHL, A DNA  
FILE REFERENCE: 20585P  
CURRENT APPLICATION NUMBER: US/10/148,806  
CURRENT FILING DATE: 2002-06-05  
PRIOR APPLICATION NUMBER: US00/33065  
PRIOR FILING DATE: 2000-12-09  
PRIOR APPLICATION NUMBER: 60/169,970  
PRIOR FILING DATE: 1999-12-09  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 20  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: oligonucleotide  
US-10-148-806-20

Query Match 57.0%; Score 11.4; DB 4; Length 20;  
Best Local Similarity 92.3%; Pred. No. 1.1e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 TAGACTTCTCAGA 20  
Db 17 TGGACTTCTCAGA 5

RESULT 19  
US-10-148-806-21

Sequence 21, Application US/10148806  
Patent No. 6762042  
GENERAL INFORMATION:  
APPLICANT: Metzger, Michael  
APPLICANT: Liu, Xiaomei  
TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NHL, A DNA  
FILE REFERENCE: 20585P  
CURRENT APPLICATION NUMBER: US/10/148,806  
CURRENT FILING DATE: 2002-06-05  
PRIOR APPLICATION NUMBER: US00/33065  
PRIOR FILING DATE: 2000-12-09  
PRIOR APPLICATION NUMBER: 60/169,970  
PRIOR FILING DATE: 1999-12-09  
NUMBER OF SEQ ID NOS: 38  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 21  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: oligonucleotide  
US-10-148-806-21

Query Match 57.0%; Score 11.4; DB 4; Length 20;  
Best Local Similarity 92.3%; Pred. No. 1.1e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 TAGACTTCTCAGA 20  
Db 4 TGGACTTCTCAGA 16

RESULT 20  
US-09-422-978-4697  
Sequence 4697, Application US/09422978  
Patent No. 6537751  
GENERAL INFORMATION:  
APPLICANT: Cohen, Daniel  
APPLICANT: Blumenfeld, Marta  
TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
FILE REFERENCE: GENSET.020CP1  
CURRENT APPLICATION NUMBER: US/09/422,978  
CURRENT FILING DATE: 1999-10-20  
EARLIER APPLICATION NUMBER: US 09/298,850  
EARLIER FILING DATE: 1999-04-21  
EARLIER APPLICATION NUMBER: US 60/109,732  
EARLIER FILING DATE: 1998-11-23  
EARLIER APPLICATION NUMBER: US 60/082,614  
EARLIER FILING DATE: 1998-04-21  
NUMBER OF SEQ ID NOS: 11796  
SEQ ID NO 4697  
LENGTH: 18  
TYPE: DNA  
ORGANISM: Homo Sapiens  
FEATURE:  
NAME/KEY: primer\_bind  
LOCATION: 1..18  
OTHER INFORMATION: upstream amplification primer 99-17105 for SEQ 763,  
US-09-422-978-4697

Query Match 56.0%; Score 11.2; DB 4; Length 18;  
Best Local Similarity 81.2%; Pred. No. 1.4e+04;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GCATAGACTTCTCAGA 20  
Db 1 GCACAGACTTCAAGA 16

RESULT 21

```
US-07-977-284A-113
; Sequence 113, Application US/07977284A
; Patent No. 555988
; GENERAL INFORMATION:
; APPLICANT: Prockop, Darwin J.
; APPLICANT: Ala-Kokko, Leena
; APPLICANT: Williams, Charlene J.
; APPLICANT: Ritvaniemi, Pertti
; APPLICANT: Baldwin, Clinton
; APPLICANT: Hopkinson, Ian
; APPLICANT: Ahmad, Nilofer Nina
; TITLE OF INVENTION: METHODS OF DETECTING A GENETIC
; TITLE OF INVENTION: PREDISPOSITION FOR OSTEOARTHRITIS
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 5559888iris
; STREET: One Liberty Place, 46th floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/977,284A
; FILING DATE: 13-NOV-1992
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Deluca, Mark
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: TJU-0697
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 113:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20
; TYPE: NUCLEIC ACID
; STRANDEDNESS: SINGLE
; TOPOLOGY: LINEAR
; ANTI-SENSE: NO
; US-07-977-284A-113

Query Match 56.0%; Score 11.2; DB 1; Length 20;
Best Local Similarity 81.2%; Pred. No. 1.5e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 ACCGCATAGACTTCTC 17
Db 4 ACTGCAGGACTTCTC 19

RESULT 22
US-08-256-426B-113
; Sequence 113, Application US/08256426B
; Patent No. 5948611
; GENERAL INFORMATION:
; APPLICANT: Prockop, Darwin J.
; APPLICANT: Ala-Kokko, Leena
; APPLICANT: Williams, Charlene J.
; APPLICANT: Ritvaniemi, Pertti
; APPLICANT: Baldwin, Clinton
; APPLICANT: Hopkinson, Ian
; APPLICANT: Ahmad, Nilofer Nina
; TITLE OF INVENTION: Methods of Detecting A Genetic
; NUMBER OF SEQUENCES: 293
; CORRESPONDENCE ADDRESS:

Query Match 56.0%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 1.5e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 CGCATAGACTTCTCAG 19
Db 20 CGCAGAGTCTTCTCAG 5

US-09-743-825-10.max.rni
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5948611ris
; STREET: One Liberty Place - 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORDPERFECT 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/256,426B
; FILING DATE: 03-FEB-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/10964
; FILING DATE: 12-NOV-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/977,284
; FILING DATE: 13-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Mark Deluca
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: TJU-1082
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 113:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20
; TYPE: NUCLEIC ACID
; STRANDEDNESS: SINGLE
; TOPOLOGY: LINEAR
; ANTI-SENSE: NO
; US-08-256-426B-113

Query Match 56.0%; Score 11.2; DB 2; Length 20;
Best Local Similarity 81.2%; Pred. No. 1.5e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 ACCGCATAGACTTCTC 17
Db 4 ACTGCAGGACTTCTC 19

RESULT 23
US-09-249-730-204/c
; Sequence 204, Application US/09249730
; Patent No. 6121000
; GENERAL INFORMATION:
; APPLICANT: WRIGHT, Jim A.
; APPLICANT: YOUNG, Aiping H.
; TITLE OF INVENTION: Antitumor Antisense Sequences Directed Against R1 and
; TITLE OF INVENTION: R2 Components of Ribonucleotide Reductase
; FILE REFERENCE: 032396-040
; CURRENT APPLICATION NUMBER: US/09/249,730
; CURRENT FILING DATE: 1999-02-11
; NUMBER OF SEQ ID NOS: 220
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 204
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Human
; US-09-249-730-204

Query Match 56.0%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 1.5e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 CGCATAGACTTCTCAG 19
Db 20 CGCAGAGTCTTCTCAG 5
```

RESULT 24  
US-09-359-756-36/c  
; Sequence 36, Application US/09359756  
; Patent No. 6168950  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: William Gaarde  
; APPLICANT: Donna T. Ward  
; APPLICANT: Lex M. Cowser  
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK1 EXPRESSION  
; FILE REFERENCE: RTS-0077  
; CURRENT APPLICATION NUMBER: US/09/359,756  
; CURRENT FILING DATE: 1999-07-23  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 36  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Human  
US-09-249-247-204

Query Match 56.0%; Score 11.2; DB 3; Length 20;  
Best Local Similarity 81.2%; Pred. No. 1.5e+04;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTCAGA 20  
Db 19 GCATAGACTTCTCAGGA 4

RESULT 25  
US-09-198-452A-3744/c  
; Sequence 3744, Application US/09198452A  
; Patent No. 6559294  
; GENERAL INFORMATION:  
; APPLICANT: Griffiths, R.  
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments  
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention  
; TITLE OF INVENTION: and treatment of infection  
; FILE REFERENCE: 9710-003-999  
; CURRENT APPLICATION NUMBER: US/09/198,452A  
; CURRENT FILING DATE: 1998-11-24  
; NUMBER OF SEQ ID NOS: 6849  
; SEQ ID NO 3744  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Chlamydia pneumoniae  
US-09-198-452A-3744

QY 5 GCATAGACTTCTCAGA 20  
Db 19 GCATAGACTTCTCAGGA 4

RESULT 26  
US-09-249-247-204/c  
; Sequence 204, Application US/09249247  
; Patent No. 6593305  
; GENERAL INFORMATION:  
; APPLICANT: WRIGHT, Jim A.  
; APPLICANT: YOUNG, Aiping H.  
; TITLE OF INVENTION: Antitumor Antisense Sequences Directed Against R1 and  
; TITLE OF INVENTION: R2 Components of Ribonucleotide Reductase  
; FILE REFERENCE: 032396-023  
; CURRENT APPLICATION NUMBER: US/09/249,247  
; CURRENT FILING DATE: 1999-02-11

Query Match 56.0%; Score 11.2; DB 4; Length 20;  
Best Local Similarity 81.2%; Pred. No. 1.5e+04;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 ACCGCATAGACTTCTC 17  
Db 20 ATCTCAGAGACTTCTC 5

RESULT 27  
US-09-975-123-28/c  
; Sequence 28, Application US/09975123  
; Patent No. 6750019  
; GENERAL INFORMATION:  
; APPLICANT: Susan M. Freier  
; TITLE OF INVENTION: ANTISENSE MODULATION OF INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTS-0253  
; CURRENT APPLICATION NUMBER: US/09/975,123  
; CURRENT FILING DATE: 2001-10-09  
; NUMBER OF SEQ ID NOS: 43  
; SEQ ID NO 28  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-975-123-28

Query Match 56.0%; Score 11.2; DB 4; Length 20;  
Best Local Similarity 81.2%; Pred. No. 1.5e+04;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GACCCGATAGACTTCT 16  
Db 17 GACCCGAAAGGATTCT 2

RESULT 28  
US-09-544-398B-32/c  
; Sequence 32, Application US/09544398B  
; Patent No. 6770461  
; GENERAL INFORMATION:  
; APPLICANT: Carulli, John P.  
; APPLICANT: Little, Randall D.  
; APPLICANT: Recker, Robert R.  
; APPLICANT: Johnson, Mark L.  
; TITLE OF INVENTION: High bone mass gene of 11q13.3  
; FILE REFERENCE: 032796-013  
; CURRENT APPLICATION NUMBER: US/09/544,398B  
; CURRENT FILING DATE: 2002-06-10  
; PRIOR APPLICATION NUMBER: US 09/229,319  
; PRIOR FILING DATE: 1999-01-13  
; PRIOR APPLICATION NUMBER: US 60/071,449  
; PRIOR FILING DATE: 1998-01-13  
; PRIOR APPLICATION NUMBER: US 60/105,511  
; PRIOR FILING DATE: 1998-10-23  
; NUMBER OF SEQ ID NOS: 641  
; SOFTWARE: FastSeq for Windows Version 4.0

US-09-359-756-36

```
; SEQ ID NO 32
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial sequence is a primer.
US-09-544-398B-32

Query Match          55.0%; Score 11; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e+04;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      10 GACTTCTCAGA 20
Db       17 GACTTCTCAGA 7
|||||

RESULT 29
US-09-544-398B-629/c
; Sequence 629, Application US/09544398B
; Patent No. 6770461
; GENERAL INFORMATION:
; APPLICANT: Carulli, John P.
; APPLICANT: Little, Randall D.
; APPLICANT: Recker, Robert R.
; APPLICANT: Johnson, Mark L.
; TITLE OF INVENTION: High bone mass gene of 11q13.3
; FILE REFERENCE: 032796-013
; CURRENT APPLICATION NUMBER: US/09/544,398B
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 641
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 629
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Sequence is a primer.
; Patent No. 6770461
US-09-544-398B-629

Query Match          55.0%; Score 11; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e+04;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      10 GACTTCTCAGA 20
Db       17 GACTTCTCAGA 7
|||||

RESULT 30
US-09-543-771B-32/c
; Sequence 32, Application US/09543771B
; Patent No. 6780609
; GENERAL INFORMATION:
; APPLICANT: Carulli, John P.
; APPLICANT: Little, Randall D.
; APPLICANT: Recker, Robert R.
; APPLICANT: Johnson, Mark L.
; TITLE OF INVENTION: High bone mass gene of 11q13.3
; FILE REFERENCE: 032796-014
; CURRENT APPLICATION NUMBER: US/09/543,771B
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13

; SEQ ID NO 629
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Sequence is a primer.
; Patent No. 6780609
US-09-543-771B-629

Query Match          55.0%; Score 11; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e+04;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      10 GACTTCTCAGA 20
Db       17 GACTTCTCAGA 7
|||||

RESULT 31
US-09-543-771B-629/c
; Sequence 629, Application US/09543771B
; Patent No. 6780609
; GENERAL INFORMATION:
; APPLICANT: Carulli, John P.
; APPLICANT: Little, Randall D.
; APPLICANT: Recker, Robert R.
; APPLICANT: Johnson, Mark L.
; TITLE OF INVENTION: High bone mass gene of 11q13.3
; FILE REFERENCE: 032796-014
; CURRENT APPLICATION NUMBER: US/09/543,771B
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 641
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 629
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Sequence is a primer.
; Patent No. 6780609
US-09-543-771B-629

Query Match          55.0%; Score 11; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e+04;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      10 GACTTCTCAGA 20
Db       17 GACTTCTCAGA 7
|||||

RESULT 32
US-08-357-791-4
; Sequence 4, Application US/08357791
; Patent No. 5652102
; GENERAL INFORMATION:
; APPLICANT: Fratomico, Pina M.
; APPLICANT: Sackitey, Solomon K.
; APPLICANT: Wiedmann, Martin
; TITLE OF INVENTION: Assay for Enterohemorrhagic Escherichia
; TITLE OF INVENTION: coli 0157:H7 by the Polymerase Chain Reaction
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Janelle S. Graeter
```



STREET: Bldg. 005, Rm 411, BARC-West  
CITY: Beltsville  
STATE: Maryland  
COUNTRY: U.S.A.  
ZIP: 20705

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/357,791  
FILING DATE:

## CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Graeter, Janelle S.  
REGISTRATION NUMBER: 35,024  
REFERENCE/DOCKET NUMBER: D.N. 0079.94  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 301-504-5676  
TELEFAX: 301-504-5060

INFORMATION FOR SEQ ID NO: 4:

## SEQUENCE CHARACTERISTICS:

LENGTH: 20 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: circular

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:

ORGANISM: Escherichia coli

STRAIN: 0157:H7

US-08-357-791-4

Query Match 55.0%; Score 11; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.9e+04;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 ATAGACTTCTC 17

DB 7 ATAGACTTCTC 17

## RESULT 33

US-09-081-646-202  
Sequence 202, Application US/09081646  
Patent No. 6333152

## GENERAL INFORMATION:

APPLICANT: Kinzler, Kenneth

APPLICANT: Vogelstein, Bert

APPLICANT: Zhang, Lin

APPLICANT: Zhou, Wei

TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and

TITLE OF INVENTION: Cancer Cells

FILE REFERENCE: 01107.74664

CURRENT APPLICATION NUMBER: US/09/081,646

CURRENT FILING DATE: 1998-05-20

EARLIER APPLICATION NUMBER: 60/047,352

EARLIER FILING DATE: 1997-05-21

NUMBER OF SEQ ID NOS: 871

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 202

LENGTH: 15

TYPE: DNA

ORGANISM: Homo sapiens

US-09-081-646-202

Query Match 54.0%; Score 10.8; DB 3; Length 15;  
Best Local Similarity 85.7%; Pred. No. 2.3e+04;  
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAG 19

DB 1 CATGACTTCTCAG 14

## RESULT 34

US-09-081-646-743

Sequence 743, Application US/09081646

Patent No. 6333152

## GENERAL INFORMATION:

APPLICANT: Kinzler, Kenneth

APPLICANT: Vogelstein, Bert

APPLICANT: Zhou, Wei

TITLE OF INVENTION: Cancer Cells

FILE REFERENCE: 01107.74664

CURRENT APPLICATION NUMBER: US/09/081,646

CURRENT FILING DATE: 1998-05-20

EARLIER APPLICATION NUMBER: 60/047,352

EARLIER FILING DATE: 1997-05-21

NUMBER OF SEQ ID NOS: 871

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 743

LENGTH: 15

TYPE: DNA

ORGANISM: Homo sapiens

US-09-081-646-743

Query Match 54.0%; Score 10.8; DB 3; Length 15;  
Best Local Similarity 85.7%; Pred. No. 2.3e+04;  
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAG 19

DB 1 CATGACTTCTCAG 14

## RESULT 35

US-09-124-398-5

Sequence 5, Application US/09124398A

Patent No. 6770456

## GENERAL INFORMATION:

APPLICANT: Boon-Falleur, Thierry

TITLE OF INVENTION: ENDOGENOUS RETROVIRUS TUMOR ASSOCIATED NUCLEIC ACIDS AND ANTIGENS

FILE REFERENCE: L0461/7033

CURRENT APPLICATION NUMBER: US/09/124,398A

CURRENT FILING DATE: 1998-07-29

NUMBER OF SEQ ID NOS: 43

SOFTWARE: FastSeq for Window Version 3.0

SEQ ID NO 5

LENGTH: 18

TYPE: DNA

ORGANISM: Homo sapiens

US-09-124-398-5

Query Match 54.0%; Score 10.8; DB 4; Length 18;  
Best Local Similarity 85.7%; Pred. No. 2.3e+04;  
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCT 16

DB 4 CCACATAGACTTCT 17

## RESULT 36

US-09-659-791A-37/c

Sequence 37, Application US/09659791A

Patent No. 6383808

## GENERAL INFORMATION:

APPLICANT: Brett P. Monia

APPLICANT: Susan M. Freier

TITLE OF INVENTION: ANTISENSE MODULATION OF CLUSTERIN EXPRESSION

FILE REFERENCE: RTS-0156  
 CURRENT APPLICATION NUMBER: US/09/659,791A  
 CURRENT FILING DATE: 2000-09-11  
 NUMBER OF SEQ ID NOS: 90  
 SEQ ID NO 37  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Antisense Oligonucleotide  
 US-09-659-791A-37

Query Match 54.0%; Score 10.8; DB 3; Length 20;  
 Best Local Similarity 85.7%; Pred. No. 2.4e+04;  
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ACCGCATAGCTTC 15  
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 Db 20 ACCGCATAGCTTC 7

RESULT 37  
 US-08-985-162-399  
 ; Sequence 399, Application US/08985162  
 ; Patent No. 6057156  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Akhtar, Saghir  
 ; APPLICANT: Fell, Patricia  
 ; APPLICANT: McSwiggen, James  
 ; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
 ; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
 ; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
 ; TITLE OF INVENTION: FACTOR RECEPTORS  
 ; NUMBER OF SEQUENCES: 1877  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; STREET: Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071-2066  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: FastSeq for Windows 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/985,162  
 ; FILING DATE: 04 December 1997  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/036,476  
 ; FILING DATE: 31 January 1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard J.  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 230/107  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 399:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 17 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-985-162-399

Query Match 53.0%; Score 10.6; DB 3; Length 17;  
 Best Local Similarity 70.8%; Pred. No. 3e+04;

Matches 12; Conservative 1; Mismatches 4; Indels 0; Gaps 0;  
 QY 1 GACCCATAGACTTCTC 17  
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 Db 1 GACAGCAUAGACGACAC 17

RESULT 38  
 US-08-584-040-5340/c  
 ; Sequence 5340, Application US/08584040  
 ; Patent No. 6346398  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pavco, Pamela  
 ; APPLICANT: McSwiggen, James  
 ; APPLICANT: Stinchcomb, Dan T.  
 ; APPLICANT: Escobedo, Jaime  
 ; TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
 ; TITLE OF INVENTION: TREATMENT OF DISEASES OR  
 ; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS  
 ; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL  
 ; TITLE OF INVENTION: GROWTH FACTOR  
 ; NUMBER OF SEQUENCES: 8502  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; STREET: Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071-2066  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: Word Perfect 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/584,040  
 ; FILING DATE: January 11, 1996  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/005,974  
 ; FILING DATE: October 26, 1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard J.  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 218/064  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 5340:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 17 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-584-040-5340

Query Match 53.0%; Score 10.6; DB 3; Length 17;  
 Best Local Similarity 76.5%; Pred. No. 3e+04;  
 Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCTCAG 19  
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 Db 17 CCGCAAGAAGTCAACAG 1

RESULT 39  
 US-09-371-772B-2242/c  
 ; Sequence 2242, Application US/0937172B  
 ; Patent No. 6566127  
 ; GENERAL INFORMATION:

APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Pavco, Pam  
APPLICANT: McSwiggen, Jim  
APPLICANT: Stinchcomb, Dan  
APPLICANT: Escobedo, Jaime  
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Related to Endothelial Growth Factor Receptor  
FILE REFERENCE: MBH00.876-J (237/198)  
CURRENT APPLICATION NUMBER: US/09/371,772B  
CURRENT FILING DATE: 1999-08-10  
PRIOR APPLICATION NUMBER: US 60/005,974  
PRIOR FILING DATE: 1995-10-26  
PRIOR APPLICATION NUMBER: US 08/584,040  
PRIOR FILING DATE: 1996-01-08  
NUMBER OF SEQ ID NOS: 14225  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 2242  
LENGTH: 17  
TYPE: RNA  
ORGANISM: Mus sp.  
US-09-371-772B-2242

Query Match 53.0%; Score 10.6; DB 4; Length 17;  
Best Local Similarity 76.5%; Pred. No. 3e+04;  
Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCTCAG 19  
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Db 17 CCGCAAGAGATCAG 1

RESULT 40  
US-09-401-063-399  
Sequence 399, Application US/09401063  
Patent No. 6623962  
GENERAL INFORMATION:  
APPLICANT: Akhtar, Saghir  
APPLICANT: Fell, Patricia  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
TITLE OF INVENTION: FACTOR RECEPTORS  
NUMBER OF SEQUENCES: 1877  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSeq for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/401,063  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/985,162  
FILING DATE: 04 December 1997  
APPLICATION NUMBER: 60/036,476  
FILING DATE: 31 January 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 230/107  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 399:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-401-063-399

Query Match 53.0%; Score 10.6; DB 4; Length 17;  
Best Local Similarity 70.6%; Pred. No. 3e+04;  
Matches 12; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTC 17  
||| ||| ||| ||| |||  
Db 1 GACAGCAUAGACGACAC 17

Search completed: August 12, 2005, 12:13:23  
Job time : 98 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 11:11:35 ; Search time 374 Seconds  
(without alignments)  
346.959 Million cell updates/sec

Title: US-09-743-825-10

Perfect score: 20

Sequence: 1 gaccgcataagattctcaga 20

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 7305758 seqs, 3244068913 residues

Total number of hits satisfying chosen parameters: 1721620

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

Published Applications NA:\*

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- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*
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- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
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- 15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq:\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq:\*
- 17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq:\*
- 18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq:\*
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- 21: /cgn2\_6/ptodata/2/pubpna/US10I\_PUBCOMB.seq:\*
- 22: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 23: /cgn2\_6/ptodata/2/pubpna/US11A\_PUBCOMB.seq:\*
- 24: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq:\*
- 25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No.        | Score | Query Match | Length | ID | Description        |
|-------------------|-------|-------------|--------|----|--------------------|
| 1                 | 13.8  | 69.0        | 20     | 17 | US-10-289-762-2812 |
| 2                 | 13.2  | 66.0        | 20     | 15 | US-10-007-010-48   |
| 3                 | 12.6  | 63.0        | 20     | 21 | US-10-956-250-12   |
| 4                 | 12.4  | 62.0        | 17     | 9  | US-09-864-785-499  |
| 5                 | 12.4  | 62.0        | 17     | 9  | US-09-864-785-2106 |
| 6                 | 12.2  | 61.0        | 18     | 22 | US-10-702-817-75   |
| 7                 | 12.2  | 61.0        | 19     | 17 | US-10-365-742-187  |
| Sequence 1812, Ap |       |             |        |    |                    |
| Sequence 48, Appl |       |             |        |    |                    |
| Sequence 12, Appl |       |             |        |    |                    |
| Sequence 499, App |       |             |        |    |                    |
| Sequence 2106, Ap |       |             |        |    |                    |
| Sequence 75, Appl |       |             |        |    |                    |
| Sequence 187, App |       |             |        |    |                    |

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| 19 | 21 | US-10-741-600-73759 | 61.0 | 12.2 | 8  |
| 20 | 17 | US-10-190-366-196   | 61.0 | 12.2 | 9  |
| 20 | 17 | US-10-190-366-389   | 61.0 | 12.2 | 10 |
| 20 | 21 | US-10-956-250-11    | 61.0 | 12.2 | 11 |
| 20 | 9  | US-09-863-806-113   | 60.0 | 12   | 12 |
| 20 | 21 | US-10-754-478-113   | 60.0 | 12   | 13 |
| 19 | 22 | US-10-923-329-137   | 59.0 | 11.8 | 14 |
| 19 | 22 | US-10-923-329-333   | 59.0 | 11.8 | 15 |
| 18 | 21 | US-10-741-600-73758 | 58.0 | 11.6 | 16 |
| 19 | 9  | US-09-768-436-31    | 58.0 | 11.6 | 17 |
| 19 | 22 | US-10-888-226-46    | 58.0 | 11.6 | 18 |
| 19 | 22 | US-10-888-226-460   | 58.0 | 11.6 | 19 |
| 20 | 9  | US-09-731-457B-14   | 58.0 | 11.6 | 20 |
| 20 | 16 | US-10-345-092-51    | 58.0 | 11.6 | 21 |
| 15 | 14 | US-10-056-414-289   | 57.0 | 11.4 | 22 |
| 17 | 9  | US-09-864-785-2881  | 57.0 | 11.4 | 23 |
| 20 | 9  | US-09-795-668-43    | 57.0 | 11.4 | 24 |
| 20 | 9  | US-09-795-686-43    | 57.0 | 11.4 | 25 |
| 20 | 9  | US-09-946-807-43    | 57.0 | 11.4 | 26 |
| 20 | 15 | US-10-148-806-20    | 57.0 | 11.4 | 27 |
| 20 | 15 | US-10-148-806-21    | 57.0 | 11.4 | 28 |
| 20 | 17 | US-10-174-319-35    | 57.0 | 11.4 | 29 |
| 20 | 17 | US-10-174-319-101   | 57.0 | 11.4 | 30 |
| 20 | 19 | US-10-304-111-24    | 57.0 | 11.4 | 31 |
| 20 | 21 | US-10-831-901A-2082 | 57.0 | 11.4 | 32 |
| 20 | 21 | US-10-831-901A-2083 | 57.0 | 11.4 | 33 |
| 20 | 21 | US-10-831-901A-2084 | 57.0 | 11.4 | 34 |
| 20 | 21 | US-10-831-901A-2085 | 57.0 | 11.4 | 35 |
| 20 | 21 | US-10-831-901A-2086 | 57.0 | 11.4 | 36 |
| 20 | 21 | US-10-831-901A-2087 | 57.0 | 11.4 | 37 |
| 20 | 21 | US-10-831-901A-2088 | 57.0 | 11.4 | 38 |
| 20 | 22 | US-10-859-792-20    | 57.0 | 11.4 | 39 |
| 20 | 22 | US-10-859-792-21    | 57.0 | 11.4 | 40 |
| 17 | 16 | US-10-157-305A-99   | 56.0 | 11.2 | 41 |
| 17 | 16 | US-10-157-319-99    | 56.0 | 11.2 | 42 |
| 17 | 16 | US-10-157-302-99    | 56.0 | 11.2 | 43 |
| 17 | 16 | US-10-157-302-99    | 56.0 | 11.2 | 44 |
| 17 | 16 | US-10-157-299-99    | 56.0 | 11.2 | 45 |
| 17 | 16 | US-10-157-215A-99   | 56.0 | 11.2 | 46 |
| 17 | 16 | US-10-157-299-99    | 56.0 | 11.2 | 47 |
| 17 | 16 | US-10-154-951B-99   | 56.0 | 11.2 | 48 |
| 17 | 16 | US-10-156-811-99    | 56.0 | 11.2 | 49 |
| 17 | 16 | US-10-157-166-99    | 56.0 | 11.2 | 50 |
| 17 | 16 | US-10-157-166-99    | 56.0 | 11.2 | 51 |
| 17 | 16 | US-10-157-318-99    | 56.0 | 11.2 | 52 |
| 17 | 16 | US-10-157-178-99    | 56.0 | 11.2 | 53 |
| 17 | 17 | US-10-156-792A-99   | 56.0 | 11.2 | 54 |
| 17 | 17 | US-10-157-213-99    | 56.0 | 11.2 | 55 |
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| 17 | 17 | US-10-260-638-192   | 56.0 | 11.2 | 57 |
| 17 | 17 | US-10-156-811-99    | 56.0 | 11.2 | 58 |
| 17 | 17 | US-10-157-073-99    | 56.0 | 11.2 | 59 |
| 17 | 17 | US-10-157-106A-99   | 56.0 | 11.2 | 60 |
| 17 | 17 | US-10-157-320A-99   | 56.0 | 11.2 | 61 |
| 17 | 17 | US-10-157-418A-99   | 56.0 | 11.2 | 62 |
| 17 | 17 | US-10-157-171-99    | 56.0 | 11.2 | 63 |
| 17 | 17 | US-10-157-491-99    | 56.0 | 11.2 | 64 |
| 17 | 17 | US-10-157-317-99    | 56.0 | 11.2 | 65 |
| 17 | 17 | US-10-157-339-99    | 56.0 | 11.2 | 66 |
| 18 | 17 | US-10-349-143-4697  | 56.0 | 11.2 | 67 |
| 19 | 18 | US-10-333-429-452   | 56.0 | 11.2 | 68 |
| 20 | 10 | US-09-915-814-88    | 56.0 | 11.2 | 69 |
| 20 | 10 | US-10-104-919-44    | 56.0 | 11.2 | 70 |
| 20 | 16 | US-10-240-046A-81   | 56.0 | 11.2 | 71 |
| 20 | 16 | US-10-289-762-3744  | 56.0 | 11.2 | 72 |
| 20 | 17 | US-10-447-136-204   | 56.0 | 11.2 | 73 |
| 20 | 17 | US-10-395-741B-45   | 56.0 | 11.2 | 74 |
| 20 | 17 | US-10-807-837-17    | 56.0 | 11.2 | 75 |
| 20 | 20 | US-10-632-581-8     | 56.0 | 11.2 | 76 |
| 20 | 21 | US-10-491-712-28    | 56.0 | 11.2 | 77 |
| 20 | 21 |                     | 56.0 | 11.2 | 78 |
| 20 | 21 |                     | 56.0 | 11.2 | 79 |
| 20 | 21 |                     | 56.0 | 11.2 | 80 |

Sequence 73759, A  
Sequence 196, App  
Sequence 389, App  
Sequence 11, Appl  
Sequence 113, Appl  
Sequence 113, App  
Sequence 137, App  
Sequence 333, App  
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Sequence 31, Appl  
Sequence 46, Appl  
Sequence 460, App  
Sequence 14, Appl  
Sequence 51, Appl  
Sequence 289, App  
Sequence 2881, Ap  
Sequence 43, Appl  
Sequence 43, Appl  
Sequence 20, Appl  
Sequence 21, Appl  
Sequence 35, Appl  
Sequence 101, App  
Sequence 24, Appl  
Sequence 2082, Ap  
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Sequence 28, Appl  
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Sequence 81, Appl  
Sequence 3744, Ap  
Sequence 204, App  
Sequence 45, Appl  
Sequence 17, Appl  
Sequence 8, Appl  
Sequence 28, Appl

c 81 11.2 56.0 20 21 US-10-968-432-44 Sequence 44, Appl  
 c 82 11.2 56.0 20 22 US-10-516-505-108 Sequence 108, App  
 c 83 11.2 56.0 20 22 US-10-516-505-185 Sequence 185, App  
 c 84 11 55.0 18 17 US-10-374-979-32 Sequence 32, Appl  
 c 85 11 55.0 18 18 US-10-182-936A-32 Sequence 32, Appl  
 c 86 11 55.0 18 19 US-10-731-739-32 Sequence 32, Appl  
 c 87 11 55.0 18 19 US-10-731-739-629 Sequence 629, App  
 c 88 11 55.0 18 20 US-10-477-238A-32 Sequence 32, Appl  
 c 89 11 55.0 18 20 US-10-477-238A-629 Sequence 629, App  
 c 90 11 55.0 18 20 US-10-680-287A-32 Sequence 32, Appl  
 c 91 11 55.0 18 20 US-10-680-287A-629 Sequence 629, App  
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 c 93 11 55.0 18 21 US-10-477-173-629 Sequence 629, App  
 c 94 11 55.0 18 21 US-10-477-173-855 Sequence 855, App  
 c 95 11 55.0 18 22 US-10-834-377-32 Sequence 32, Appl  
 c 96 11 55.0 18 22 US-10-834-377-629 Sequence 629, App  
 c 97 11 55.0 19 21 US-10-485-999-81 Sequence 81, Appl  
 c 98 11 55.0 19 21 US-10-813-747-19 Sequence 19, Appl  
 c 99 11 55.0 20 19 US-10-688-706-705 Sequence 705, App  
 c 100 11 55.0 20 19 US-10-688-706-1211 Sequence 1211, Ap

# ALIGNMENTS

RESULT 1  
 US-10-289-762-2812  
 ; Sequence 2812, Application US/10289762  
 ; Publication No. US20040006218A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffiths, R.  
 ; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments  
 ; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention  
 ; FILE OF INVENTION: and treatment of infection  
 ; FILE REFERENCE: 9710-003-999  
 ; CURRENT APPLICATION NUMBER: US/10/289,762  
 ; CURRENT FILING DATE: 2003-03-27  
 ; NUMBER OF SEQ ID NOS: 6849  
 ; SEQ ID NO 2812  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Chlamydia pneumoniae  
 US-10-289-762-2812

Query Match 69.0%; Score 13.8; DB 17; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 2.4e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTC 17  
 Db 3 GACCGCATAAACTTATC 19

RESULT 2  
 US-10-007-010-48/c  
 ; Sequence 48, Application US/10007010  
 ; Publication No. US20030125275A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alexander H. Borchers  
 ; APPLICANT: Kenneth W. Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF HCK EXPRESSION  
 ; FILE REFERENCE: RTS-0345  
 ; CURRENT APPLICATION NUMBER: US/10/007,010  
 ; CURRENT FILING DATE: 2001-12-04  
 ; NUMBER OF SEQ ID NOS: 87  
 ; SEQ ID NO 48  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-007-010-48

Query Match 66.0%; Score 13.2; DB 15; Length 20;  
 Best Local Similarity 83.3%; Pred. No. 5.1e+03;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 ACCGCATAGACTTCTCAG 19  
 Db 20 AACTCATTGACTTCTCAG 3

RESULT 3  
 US-10-956-250-12  
 ; Sequence 12, Application US/10956250  
 ; Publication No. US20050090430A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Feder, John N.  
 ; Schatzman, Randall C.  
 ; Teuchihashi, Zenta  
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
 ; DIAGNOSIS AND TREATMENT OF IRON MISREGULATION D  
 ; ISEASES  
 ; NUMBER OF SEQUENCES: 13  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Pennie & Edmonds LLP  
 ; STREET: 1155 Avenue of the Americas  
 ; CITY: New York  
 ; STATE: NY  
 ; COUNTRY: USA  
 ; ZIP: 10036-2811  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; OPERATING SYSTEM: Windows  
 ; SOFTWARE: FastSeq for Windows Version 2.0b  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/956,250  
 ; FILING DATE: 01-Oct-2004  
 ; CLASSIFICATION: <Unknown>  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/920,559  
 ; FILING DATE: 27-Aug-1997  
 ; APPLICATION NUMBER: US 08/652,265  
 ; FILING DATE: 23-MAY-1996  
 ; APPLICATION NUMBER: US 08/834,497  
 ; FILING DATE: 04-APR-1997  
 ; APPLICATION NUMBER: US 08/866,211  
 ; FILING DATE: 13-JUN-1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Poissant, Brian M  
 ; REGISTRATION NUMBER: 28,462  
 ; REFERENCE/DOCKET NUMBER: 8907-0062-999  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 650-493-4935  
 ; TELEFAX: 650-493-5556  
 ; INFORMATION FOR SEQ ID NO: 12:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 20 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
 US-10-956-250-12

Query Match 63.0%; Score 12.6; DB 21; Length 20;  
 Best Local Similarity 78.9%; Pred. No. 1.1e+04;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAG 19  
 Db 2 GACGACACAGACTTCACCG 20

RESULT 4

US-09-864-785-499  
; Sequence 499, Application US/09864785  
; Patent No. US20020177568A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Draper, Ken  
; APPLICANT: McSwiggen, Jim  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to  
; TITLE OF INVENTION: Levels of NF-Kappa B  
; FILE REFERENCE: 400/022 (MBHB00-812-D)  
; CURRENT APPLICATION NUMBER: US/09/864,785  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 3929  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 499  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid  
US-09-864-785-499

Query Match 52.0%; Score 12.4; DB 9; Length 17;  
Best Local Similarity 64.3%; Pred. No. 1.4e+04;  
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAG 19  
||: |||: ||: |||  
DB 2 CAUGGACUUCUCAG 15

RESULT 5  
US-09-864-785-2106  
; Sequence 2106, Application US/09864785  
; Patent No. US20020177568A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Draper, Ken  
; APPLICANT: McSwiggen, Jim  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to  
; TITLE OF INVENTION: Levels of NF-Kappa B  
; FILE REFERENCE: 400/022 (MBHB00-812-D)  
; CURRENT APPLICATION NUMBER: US/09/864,785  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 3929  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2106  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid  
US-09-864-785-2106

Query Match 62.0%; Score 12.4; DB 9; Length 17;  
Best Local Similarity 64.3%; Pred. No. 1.4e+04;  
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAG 19  
||: |||: ||: |||  
DB 4 CAUGGACUUCUCAG 17

RESULT 6  
US-10-702-817-75/c  
; Sequence 75, Application US/10702817  
; Publication No. US20040147471A1  
; GENERAL INFORMATION:  
; APPLICANT: Hong Zhang  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TNFR1 EXPRESSION  
; FILE REFERENCE: ISPH-0797

```

; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73759
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-600-73759

```

|                       |                 |                    |           |            |
|-----------------------|-----------------|--------------------|-----------|------------|
| Query Match           | 61.0%;          | Score 12.2;        | DB 21;    | Length 19; |
| Best Local Similarity | 82.4%;          | Pred. No. 1.8e+04; |           |            |
| Matches 14;           | Conservative 3; | Mismatches 0;      | Indels 0; | Gaps 0;    |

Qy 1 GACCGCATAGACTTCTC 17  
||| ||| ||| ||| ||| |||  
Db 1 GACAGCACAGACTTCAC 17

```

RESULT 9
US-10-190-366-196/c
; Sequence 196, Application US/10190366
; Publication No. US20040006031A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF HMG-COA REDUCTASE EXPRESSION
; FILE REFERENCE: PTS-0023
; CURRENT APPLICATION NUMBER: US/10/190,366
; CURRENT FILING DATE: 2002-07-02
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO 196
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-190-366-196

```

Qy 4 CGCATAGACTTCTCAGA 20  
||| ||| ||| ||| ||| ||| |||  
pb 18 CACAGAGACTCCTCAGA 2

```

RESULT 10
US-10-190-366-389
; Sequence 389, Application US/10190366
; Publication No. US20040006031A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Doble
; TITLE OF INVENTION: ANTISENSE MODULATION OF HMG-COA REDUCTASE EXPRESSION
; FILE REFERENCE: PTS-0023
; CURRENT APPLICATION NUMBER: US/10/190,366
; CURRENT FILING DATE: 2002-07-02
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO 389
; LENGTH: 20
; TYPE: DNA
; ORGANISM: M. musculus
; FEATURE:
; US-10-190-366-389

```

QY 4 CGCATAGACTTCTCAGA 20  
| | | | | | | | | |  
pb 3 CACAGAGACTCCTCAGA 19

```

RESULT 11
; US-10-956-250-11
; Sequence 11, Application US/10956250
; Publication No. US20050090430A1
; GENERAL INFORMATION:
; APPLICANT: Feder, John N.
; Schatzman, Randall C.
; Tsuchihashi, Zenta
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; DIAGNOSIS AND TREATMENT OF IRON MISREGULATION D
; ISEASES
;

```

Qy 1 GACGCGATAGACTTCTC 17  
||| ||| ||| ||| ||| |||  
Db 2 GACAGCACAGACTTCAC 18

RESULT 12  
US-09-863-806-113  
; Sequence 113, Application US/09863806  
; Publication No. US20020197608A1



## GENERAL INFORMATION:

APPLICANT: Sidransky, David  
TITLE OF INVENTION: DETECTION OF NEOPLASIM BY ANALYSIS OF SALIVA  
NUMBER OF SEQUENCES: 195

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.  
STREET: 4225 Executive Square, Suite 1400  
CITY: La Jolla  
STATE: CA  
COUNTRY: USA

ZIP: 92037

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: FastSeq for Windows Version 2.0b

## CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/863,806  
FILING DATE: 22-May-2001

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/038,637  
FILING DATE: <Unknown>  
APPLICATION NUMBER: 08/152,313  
FILING DATE: 12-NOV-1993

## ATTORNEY/AGENT INFORMATION:

NAME: Haile, Lisa A.  
REGISTRATION NUMBER: 38,347  
REFERENCE/DOCKET NUMBER: 07265/146001  
TELEPHONE: 619/678-5070  
TELEFAX: 619/678-5099

## INFORMATION FOR SEQ ID NO: 113:

SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRADEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Genomic DNA

SEQUENCE DESCRIPTION: SEQ ID NO: 113:  
US-09-863-806-113

Query Match 60.0%; Score 12; DB 9; Length 20;  
Best Local Similarity 75.0%; Pred. No. 2.3e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20

Db 1 GACCCACAGCCTATTTCAGA 20

## RESULT 13

US-10-754-478-113  
Sequence 113, Application US/10754478  
Publication No. US2005009040A1

## GENERAL INFORMATION:

APPLICANT: Sidransky, David  
TITLE OF INVENTION: DETECTION OF NEOPLASIM BY ANALYSIS OF SALIVA  
NUMBER OF SEQUENCES: 195

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.  
STREET: 4225 Executive Square, Suite 1400  
CITY: La Jolla  
STATE: CA  
COUNTRY: USA

ZIP: 92037

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: FastSeq for Windows Version 2.0b

## CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/754,478  
FILING DATE: 09-Jan-2004

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/038,637  
FILING DATE: 10-MAR-1998  
APPLICATION NUMBER: 08/579,233  
FILING DATE: 28-DEC-1995  
APPLICATION NUMBER: 08/152,313  
FILING DATE: 12-NOV-1993

## ATTORNEY/AGENT INFORMATION:

NAME: Haile, Lisa A.  
REGISTRATION NUMBER: 38,347  
REFERENCE/DOCKET NUMBER: 07265/146001  
TELEPHONE: 619/678-5070  
TELEFAX: 619/678-5099

## INFORMATION FOR SEQ ID NO: 113:

SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRADEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Genomic DNA  
SEQUENCE DESCRIPTION: SEQ ID NO: 113:  
US-10-754-478-113

Query Match 60.0%; Score 12; DB 21; Length 20;  
Best Local Similarity 75.0%; Pred. No. 2.3e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20

Db 1 GACCCACAGCCTATTTCAGA 20

## RESULT 14

US-10-923-329-137/c  
Sequence 137, Application US/10923329  
Publication No. US20050164968A1

## GENERAL INFORMATION:

APPLICANT: Sirna Therapeutics, Inc.  
APPLICANT: Richards, Ivan  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: RNA Interference Mediated Inhibition of ADAM33 Gene Expression  
TITLE OF INVENTION: Using Short Interfering Nucleic Acid (siNA)  
FILE REFERENCE: 400/225 (MBHB04-672)

CURRENT APPLICATION NUMBER: US/10/923,329

CURRENT FILING DATE: 2004-08-20

PRIOR APPLICATION NUMBER: PCT/US04/16390

PRIOR FILING DATE: 2004-05-24

PRIOR APPLICATION NUMBER: US 10/826,966

PRIOR FILING DATE: 2004-04-16

PRIOR APPLICATION NUMBER: PCT/US04/13456

PRIOR FILING DATE: 2004-04-30

PRIOR APPLICATION NUMBER: US 10/780,447

PRIOR FILING DATE: 2004-02-13

PRIOR APPLICATION NUMBER: US 60/292,217

PRIOR FILING DATE: 2001-05-18

PRIOR APPLICATION NUMBER: US 60/362,016

PRIOR FILING DATE: 2002-03-06

PRIOR APPLICATION NUMBER: US 60/363,883

PRIOR FILING DATE: 2001-07-20

PRIOR APPLICATION NUMBER: US 60/311,865

PRIOR FILING DATE: 2001-08-13

PRIOR APPLICATION NUMBER: US 10/727,780

PRIOR FILING DATE: 2003-12-03

PRIOR APPLICATION NUMBER: US 60/543,480

PRIOR FILING DATE: 2004-02-10

Remaining prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 514

SOFTWARE: PatentIn version 3.3

SEQ ID NO 137

LENGTH: 19

TYPE: RNA

ORGANISM: Artificial Sequence

```
;
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-923-329-137

Query Match      59.0%; Score 11.8; DB 22; Length 19;
Best Local Similarity 86.7%; Pred. No. 2.9e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      5 GCATAGACTTCTCAG 19
      |||||
Db      17 GCAGAGGCTTCTCAG 3

RESULT 15
US-10-923-329-333
; Sequence 333, Application US/10923329
; Publication No. US20050164968A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Richards, Ivan
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of ADAM33 Gene Expression
; FILE REFERENCE: 400/225 (MBHB04-672)
; CURRENT APPLICATION NUMBER: US/10/923,329
; CURRENT FILING DATE: 2004-08-20
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: PCT/US04/13456
; PRIOR FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: US 10/780,447
; PRIOR FILING DATE: 2004-02-13
; PRIOR APPLICATION NUMBER: US 60/292,217
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/362,016
; PRIOR FILING DATE: 2002-03-06
; PRIOR APPLICATION NUMBER: US 60/363,883
; PRIOR FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 60/311,865
; PRIOR FILING DATE: 2001-08-13
; PRIOR APPLICATION NUMBER: US 10/727,780
; PRIOR FILING DATE: 2003-12-03
; PRIOR APPLICATION NUMBER: US 60/543,480
; PRIOR FILING DATE: 2004-02-10
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 514
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 333
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-923-329-333

Query Match      59.0%; Score 11.8; DB 22; Length 19;
Best Local Similarity 66.7%; Pred. No. 2.9e+04;
Matches 10; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      5 GCATAGACTTCTCAG 19
      |||||
Db      3 GCAGAGGCTTCTCAG 17

RESULT 16
US-10-741-600-73758
; Sequence 73758, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
```

```
;
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73758
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-600-73758

Query Match      58.0%; Score 11.6; DB 21; Length 18;
Best Local Similarity 77.8%; Pred. No. 3.7e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2 ACCGCATAGACTTCTCAG 19
      |||||
Db      1 ACAGCACAGACTTCCCG 18

RESULT 17
US-09-768-436-31/c
; Sequence 31, Application US/09768436
; Patent No. US20020006639A1
; GENERAL INFORMATION:
; APPLICANT: Paul Andrew Whittaker et al
; TITLE OF INVENTION: Disease-Associated Gene
; FILE REFERENCE: Case No. US20020006639A1 4-31306A/HO 25
; CURRENT APPLICATION NUMBER: US/09/768,436
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-768-436-31

Query Match      58.0%; Score 11.6; DB 9; Length 19;
Best Local Similarity 77.8%; Pred. No. 3.7e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 GACGCGATAGACTTCTCA 18
      |||||
Db      18 GACGCGAGCGACATCTCA 1

RESULT 18
US-10-888-226-46/c
; Sequence 46, Application US/10888226
; Publication No. US20050124568A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Usman, Nassim
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Acetyl-CoA-Carboxylase
; FILE REFERENCE: 400-199 (MBHB03-710-A)
; CURRENT APPLICATION NUMBER: US/10/888,226
; CURRENT FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: US 60/486,729
; PRIOR FILING DATE: 2003-07-11
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
```

PRIOR APPLICATION NUMBER: US 10/444,853  
PRIOR FILING DATE: 2003-05-23  
PRIOR APPLICATION NUMBER: PCT/US03/05346  
PRIOR FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: PCT/US03/05028  
PRIOR FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: US 60/358580  
PRIOR FILING DATE: 2002-02-20  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 955  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 46  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense  
US-10-888-226-46

Query Match 58.0%; Score 11.6; DB 22; Length 19;  
Best Local Similarity 77.8%; Pred. No. 3.7e+04;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCA 18  
Db 18 GACCGCATAGACTTCTCA 1

RESULT 19  
US-10-888-226-460  
Sequence 460, Application US/10888226  
Publication No. US20050124568A1  
GENERAL INFORMATION:  
APPLICANT: Sirna Therapeutics, Inc.  
APPLICANT: McSwiggen, James  
APPLICANT: Usman, Nassim  
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Acetyl-CoA-Carboxylase  
FILE REFERENCE: 400-199 (MHB03-710-A)  
CURRENT APPLICATION NUMBER: US/10/888,226  
CURRENT FILING DATE: 2004-07-09  
PRIOR APPLICATION NUMBER: US 60/486,729  
PRIOR FILING DATE: 2003-07-11  
PRIOR APPLICATION NUMBER: PCT/US04/16390  
PRIOR FILING DATE: 2004-05-24  
PRIOR APPLICATION NUMBER: US 10/826,966  
PRIOR FILING DATE: 2004-04-16  
PRIOR APPLICATION NUMBER: US 10/757,803  
PRIOR FILING DATE: 2004-01-14  
PRIOR APPLICATION NUMBER: US 10/720,448  
PRIOR FILING DATE: 2003-11-24  
PRIOR APPLICATION NUMBER: US 10/693,059  
PRIOR FILING DATE: 2003-10-23  
PRIOR APPLICATION NUMBER: US 10/444,853  
PRIOR FILING DATE: 2003-05-23  
PRIOR APPLICATION NUMBER: PCT/US03/05346  
PRIOR FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: PCT/US03/05028  
PRIOR FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: US 60/358580  
PRIOR FILING DATE: 2002-02-20  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 955  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 460  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region  
US-10-888-226-460

Query Match

58.0%; Score 11.6; DB 22; Length 19;

Best Local Similarity 61.1%; Pred. No. 3.7e+04;  
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCA 18  
Db 2 GACCGCAUGCACUACACA 19

## RESULT 20

US-09-731-457B-14  
Sequence 14, Application US/09731457B  
Patent No. US20020103146A1  
GENERAL INFORMATION:  
APPLICANT: Ian Popoff  
APPLICANT: Jacqueline Wyatt  
TITLE OF INVENTION: ANTISENSE MODULATION OF DAMAGE-SPECIFIC DNA BINDING PROTEIN 1, P1;  
TITLE OF INVENTION: EXPRESSION  
FILE REFERENCE: RTS-0182  
CURRENT APPLICATION NUMBER: US/09/731,457B  
CURRENT FILING DATE: 2000-12-06  
NUMBER OF SEQ ID NOS: 87  
SEQ ID NO 14  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense Oligonucleotide  
US-09-731-457B-14

Query Match 58.0%; Score 11.6; DB 9; Length 20;  
Best Local Similarity 77.8%; Pred. No. 3.7e+04;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCA 18  
Db 2 GACCACATAGACTCTCAA 19

## RESULT 21

US-10-345-092-51  
Sequence 51, Application US/10345092  
Publication No. US20030165506A1  
GENERAL INFORMATION:  
APPLICANT: Vlaams Interuniversitair Instituut voor Biotechnol  
TITLE OF INVENTION: No. US20030165506A1el alpha-catenin expressed in heart and testis  
FILE REFERENCE: FVR/atc/V067  
CURRENT APPLICATION NUMBER: US/10/345,092  
CURRENT FILING DATE: 2003-01-13  
PRIOR APPLICATION NUMBER: 00202472.7  
PRIOR FILING DATE: 2000-07-12  
PRIOR APPLICATION NUMBER: US 60/218,309  
PRIOR FILING DATE: 2000-07-14  
NUMBER OF SEQ ID NOS: 134  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 51  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: upper primer  
US-10-345-092-51

Query Match 58.0%; Score 11.6; DB 16; Length 20;  
Best Local Similarity 77.8%; Pred. No. 3.7e+04;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCA 18  
Db 2 GACTGACAGGCTTCTCA 19

## RESULT 22

US-10-056-414-289  
; Sequence 289, Application US/10056414  
; Publication No. US20030003469A1  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; Draper, Kenneth G.  
; McSwiggen, James  
; TITLE OF INVENTION: RIBOZYME TREATMENT OF  
; DISEASES OR CONDITIONS  
; RELATED TO LEVELS OF  
; NF-KB  
; NUMBER OF SEQUENCES: 830  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/056,414  
; FILING DATE: 23-Jan-2002  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/291,932A  
; FILING DATE: August 15, 1994  
; APPLICATION NUMBER: 08/245,466  
; FILING DATE: May 18, 1994  
; APPLICATION NUMBER: 07/987,132  
; FILING DATE: December 7, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 208/157  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 289:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; SEQUENCE DESCRIPTION: SEQ ID NO: 289:  
US-10-056-414-289  
Query Match 57.0%; Score 11.4; DB 14; Length 15;  
Best Local Similarity 61.5%; Pred. No. 4.7e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;  
QY 7 ATAGACTTCTCAG 19  
; : : : : :  
; : : : : :  
Db 1 AUGGACUUCUAC 13  
RESULT 23  
US-09-864-785-2881  
; Sequence 2881, Application US/09864785  
; Patent No. US20020177568A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Draper, Ken  
; APPLICANT: McSwiggen, Jim  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related

; TITLE OF INVENTION: Levels of NF-Kappa B  
; FILE REFERENCE: 400/022 (MBH00-812-D)  
; CURRENT APPLICATION NUMBER: US/09/864,785  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 3929  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2881  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid  
US-09-864-785-2881  
Query Match 57.0%; Score 11.4; DB 9; Length 17;  
Best Local Similarity 61.5%; Pred. No. 4.7e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;  
QY 6 CATAGACTTCTCA 18  
; : : : : :  
; : : : : :  
Db 5 CAUGGACUUCUCA 17  
RESULT 24  
US-09-795-668-43  
; Sequence 43, Application US/09795668  
; Patent No. US20020045577A1  
; GENERAL INFORMATION:  
; APPLICANT: Stefansson, Hreinn  
; APPLICANT: Steinhorsdottir, Valgerdur  
; APPLICANT: Gulcher, Jeffrey R.  
; TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE  
; FILE REFERENCE: 2345.2004-001  
; CURRENT APPLICATION NUMBER: US/09/795,668  
; CURRENT FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: US 09/515,716  
; PRIOR FILING DATE: 2000-02-28  
; NUMBER OF SEQ ID NOS: 1531  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 43  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-795-668-43  
Query Match 57.0%; Score 11.4; DB 9; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 5 GCATAGACTTCTC 17  
; : : : : :  
; : : : : :  
Db 6 GCATAGAAATCTC 18  
RESULT 25  
US-09-795-686-43  
; Sequence 43, Application US/09795686  
; Patent No. US20020094954A1  
; GENERAL INFORMATION:  
; APPLICANT: Stefansson, Hreinn  
; APPLICANT: Steinhorsdottir, Valgerdur  
; APPLICANT: Gulcher, Jeffrey R.  
; TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE  
; FILE REFERENCE: 2345.2005-001  
; CURRENT APPLICATION NUMBER: US/09/795,686  
; CURRENT FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: US 09/515,715  
; PRIOR FILING DATE: 2000-02-28  
; NUMBER OF SEQ ID NOS: 1531  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 43  
; LENGTH: 20  
; TYPE: DNA

```
; ORGANISM: Homo sapiens
US-09-795-686-43

Query Match          57.0%; Score 11.4; DB 9; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      5 GCATAGACTTCTC 17
Db      6 GCATAGAATTCTC 18
      |||||
RESULT 26
US-09-946-807-43
; Sequence 43, Application US/09946807
; Patent No. US20020165144A1
; GENERAL INFORMATION:
; APPLICANT: Stefansson, Hreinn
; APPLICANT: Steinthorsdottir, Valgerdur
; APPLICANT: Gulcher, Jeffrey R.
; TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE
; FILE REFERENCE: 2345-2004-001
; CURRENT APPLICATION NUMBER: US/09/946,807
; CURRENT FILING DATE: 2001-09-05
; PRIOR APPLICATION NUMBER: US/09/795,668
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 09/515,716
; PRIOR FILING DATE: 2000-02-28
; NUMBER OF SEQ ID NOS: 1531
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-946-807-43

Query Match          57.0%; Score 11.4; DB 9; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      5 GCATAGACTTCTC 17
Db      6 GCATAGAATTCTC 18
      |||||
RESULT 27
US-10-148-806-20/c
; Sequence 20, Application US/10148806
; Publication No. US20030138933A1
; GENERAL INFORMATION:
; APPLICANT: Bai, Chang
; APPLICANT: Metzger, Michael
; APPLICANT: Liu, Xiaomei
; TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NHL, A DNA
; TITLE OF INVENTION: HELICASE
; FILE REFERENCE: 20585P
; CURRENT APPLICATION NUMBER: US/10/148,806
; CURRENT FILING DATE: 2002-06-05
; PRIOR APPLICATION NUMBER: US00/33065
; PRIOR FILING DATE: 2000-12-09
; PRIOR APPLICATION NUMBER: 60/169,970
; PRIOR FILING DATE: 1999-12-09
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-148-806-20

Query Match          57.0%; Score 11.4; DB 15; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      8 TAGACTTCTCAGA 20
Db      4 TGGACTTCTCAGA 16
      |||||
RESULT 28
US-10-148-806-21
; Sequence 21, Application US/10148806
; Publication No. US20030138933A1
; GENERAL INFORMATION:
; APPLICANT: Bai, Chang
; APPLICANT: Metzger, Michael
; APPLICANT: Liu, Xiaomei
; TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NHL, A DNA
; TITLE OF INVENTION: HELICASE
; FILE REFERENCE: 20585P
; CURRENT APPLICATION NUMBER: US/10/148,806
; CURRENT FILING DATE: 2002-06-05
; PRIOR APPLICATION NUMBER: US00/33065
; PRIOR FILING DATE: 2000-12-09
; PRIOR APPLICATION NUMBER: 60/169,970
; PRIOR FILING DATE: 1999-12-09
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-148-806-21

Query Match          57.0%; Score 11.4; DB 15; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      8 TAGACTTCTCAGA 20
Db      4 TGGACTTCTCAGA 16
      |||||
RESULT 29
US-10-174-319-35/c
; Sequence 35, Application US/10174319
; Publication No. US20030232771A1
; GENERAL INFORMATION:
; APPLICANT: Donna T. Ward
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF MARK3 EXPRESSION
; FILE REFERENCE: PTS-0018
; CURRENT APPLICATION NUMBER: US/10/174,319
; CURRENT FILING DATE: 2002-06-17
; NUMBER OF SEQ ID NOS: 121
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-174-319-35

Query Match          57.0%; Score 11.4; DB 17; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      8 TAGACTTCTCAGA 20
Db      19 TAGACATCTCAGA 7
      |||||
```

RESULT 30  
US-10-174-319-101  
; Sequence 101, Application US/10174319  
; Publication No. US20030232771A1  
; GENERAL INFORMATION:  
; APPLICANT: Donna T. Ward  
; APPLICANT: Susan M. Freier  
; APPLICANT: Kenneth W. Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF MARK3 EXPRESSION  
; FILE REFERENCE: PTS-0018  
; CURRENT APPLICATION NUMBER: US/10/174,319  
; CURRENT FILING DATE: 2002-06-17  
; NUMBER OF SEQ ID NOS: 121  
; SEQ ID NO 101  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: H. sapiens  
; FEATURE:  
US-10-174-319-101

Query Match 57.0%; Score 11.4; DB 17; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 8 TAGACTTCTCAGA 20  
Db 2 TAGACATCTCAGA 14  
|||||

RESULT 31  
US-10-304-111-24  
; Sequence 24, Application US/10304111  
; Publication No. US20040102403A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Nicholas M. Dean  
; APPLICANT: Kenneth W. Dobie  
; TITLE OF INVENTION: MODULATION OF FIBRILLARIN EXPRESSION  
; FILE REFERENCE: HTS-0075  
; CURRENT APPLICATION NUMBER: US/10/304,111  
; CURRENT FILING DATE: 2002-11-21  
; NUMBER OF SEQ ID NOS: 71  
; SEQ ID NO 24  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-304-111-24

Query Match 57.0%; Score 11.4; DB 19; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 GACCGCATAGACT 13  
Db 2 GACTGCATAGACT 14  
|||||

RESULT 32  
US-10-831-901A-2082/c  
; Sequence 2082, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian A.  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric

; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2082  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-2082

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 7 ATAGACTTCTCAG 19  
Db 13 ACAGACTTCTCAG 1  
|||||

RESULT 33  
US-10-831-901A-2083/c  
; Sequence 2083, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian A.  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2083

;  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-2083

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 14 ACAGACTTCTCAG 2

RESULT 34  
US-10-831-901A-2084/c  
; Sequence 2084, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; TITLE OF INVENTION: Acute Respiratory Syndrome (SARS)  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2084  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-2084

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 15 ACAGACTTCTCAG 3

RESULT 35  
US-10-831-901A-2085/c  
; Sequence 2085, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.

; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; TITLE OF INVENTION: Acute Respiratory Syndrome (SARS)  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2085  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-2085

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 16 ACAGACTTCTCAG 4

RESULT 36  
US-10-831-901A-2086/c  
; Sequence 2086, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; TITLE OF INVENTION: Acute Respiratory Syndrome (SARS)  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06

; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2086  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-2086

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 17 ACAGACTTCTCAG 5

RESULT 37  
US-10-831-901A-2087/c  
; Sequence 2087, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2087  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-2087

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 18 ACAGACTTCTCAG 6

RESULT 38  
US-10-831-901A-2088/c  
; Sequence 2088, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2088  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-2088

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 19 ACAGACTTCTCAG 7

RESULT 39  
US-10-831-901A-2089/c  
; Sequence 2089, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426



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; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 60/468,562
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 60/467,770
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: 60/468,627
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 60/477,637
; PRIOR FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: 60/483,579
; PRIOR FILING DATE: 2003-06-27
; NUMBER OF SEQ ID NOS: 30063
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2089
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense compound
US-10-831-901A-2089

```

```

Query Match          57.0%; Score 11.4; DB 21; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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```

QY      7 ATAGACTTCTCAG 19
      |||||
Db      20 ACAGACTTCTCAG 8

```

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RESULT 40
US-10-859-792-20/c
; Sequence 20, Application US/10859792
; Publication No. US20050136425A1
; GENERAL INFORMATION:
; APPLICANT: Bai, Chang
; APPLICANT: Metzger, Michael
; APPLICANT: Liu, Xiaomei
; TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NHL, A DNA
; FILE REFERENCE: 20585P
; CURRENT APPLICATION NUMBER: US/10/859,792
; CURRENT FILING DATE: 2004-06-03
; PRIOR FILING DATE: 2002-06-05
; PRIOR APPLICATION NUMBER: US/10/148,806
; PRIOR FILING DATE: 2000-12-09
; PRIOR APPLICATION NUMBER: 60/169,970
; PRIOR FILING DATE: 1999-12-09
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-859-792-20

```

```

Query Match          57.0%; Score 11.4; DB 22; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      8 TAGACTTCTCAGA 20
      |||||
Db      17 TGGACTTCTCAGA 5

```

Search completed: August 12, 2005, 12:19:44  
Job time : 376 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 11:03:34 ; Search time 1779 Seconds  
(without alignments)

427.929 Million cell updates/sec

Title: US-09-743-825-10

Perfect score: 20

Sequence: 1 gaccgcataagcttcacaga 20

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 12452

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_hic:\*

4: gb\_est3:\*

5: gb\_est4:\*

6: gb\_est5:\*

7: gb\_est6:\*

8: gb\_gsal:\*

9: gb\_gsa2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description        |
|------------|-------|-------------|--------|----|--------------------|
| 1          | 10.2  | 51.0        | 19     | 7  | CO792214 NT014C A1 |
| 2          | 9.8   | 49.0        | 19     | 8  | AZ309643           |
| 3          | 9.6   | 48.0        | 20     | 8  | AZ660128           |
| 4          | 9.2   | 46.0        | 17     | 9  | CL681189           |
| 5          | 9     | 45.0        | 18     | 5  | BQ593906           |
| 6          | 9     | 45.0        | 19     | 1  | AJ671616           |
| 7          | 9     | 45.0        | 19     | 9  | CL671780           |
| 8          | 9     | 45.0        | 20     | 9  | AG188131           |
| 9          | 8.8   | 44.0        | 16     | 5  | BQ585512           |
| 10         | 8.8   | 44.0        | 19     | 8  | AZ585898           |
| 11         | 8.8   | 44.0        | 20     | 9  | AG187931           |
| 12         | 8.8   | 44.0        | 20     | 9  | AG200702           |
| 13         | 8.6   | 43.0        | 16     | 1  | AJ684587           |
| 14         | 8.6   | 43.0        | 19     | 8  | AZ309116           |
| 15         | 8.6   | 43.0        | 20     | 7  | CO783852           |
| 16         | 8.6   | 43.0        | 20     | 8  | AZ440002           |
| 17         | 8.4   | 42.0        | 17     | 1  | AJ648088           |
| 18         | 8.4   | 42.0        | 19     | 8  | AZ313531           |
| 19         | 8.4   | 42.0        | 19     | 8  | AZ663240           |
| 20         | 8.4   | 42.0        | 20     | 8  | AZ303578           |
| 21         | 8.4   | 42.0        | 20     | 8  | AZ771437           |
| 22         | 8.2   | 41.0        | 16     | 9  | CL423466           |
| 23         | 8.2   | 41.0        | 19     | 1  | AA916934           |
| 24         | 8.2   | 41.0        | 19     | 8  | AZ414372           |

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|----|-----|------|----|---|----------|
| 8  | 8.2 | 41.0 | 19 | 8 | AZ436629 |
| 9  | 8.2 | 41.0 | 19 | 8 | AZ454430 |
| 10 | 8.2 | 41.0 | 19 | 8 | AZ647364 |
| 11 | 8.2 | 41.0 | 19 | 8 | AZ655870 |
| 12 | 8.2 | 41.0 | 19 | 8 | AZ783477 |
| 13 | 8   | 40.0 | 12 | 9 | AJ594088 |
| 14 | 8   | 40.0 | 20 | 8 | AZ345710 |
| 15 | 7.8 | 39.0 | 14 | 9 | CL423876 |
| 16 | 7.8 | 39.0 | 14 | 9 | CL438505 |
| 17 | 7.8 | 39.0 | 18 | 9 | AJ587709 |
| 18 | 7.8 | 39.0 | 18 | 9 | AJ587709 |
| 19 | 7.8 | 39.0 | 19 | 8 | AZ355195 |
| 20 | 7.8 | 39.0 | 19 | 8 | AZ422531 |
| 21 | 7.8 | 39.0 | 19 | 8 | AZ875430 |
| 22 | 7.8 | 39.0 | 19 | 9 | AJ595189 |
| 23 | 7.8 | 39.0 | 19 | 9 | AJ599121 |
| 24 | 7.8 | 39.0 | 19 | 9 | CL683526 |
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| 26 | 7.8 | 39.0 | 20 | 8 | AZ480596 |
| 27 | 7.8 | 39.0 | 20 | 8 | AZ480596 |
| 28 | 7.8 | 39.0 | 20 | 9 | AJ597717 |
| 29 | 7.8 | 39.0 | 20 | 9 | CL423931 |
| 30 | 7.6 | 38.0 | 17 | 9 | AJ587423 |
| 31 | 7.6 | 38.0 | 19 | 1 | AA915433 |
| 32 | 7.6 | 38.0 | 19 | 7 | CF328201 |
| 33 | 7.6 | 38.0 | 19 | 8 | AZ442391 |
| 34 | 7.6 | 38.0 | 19 | 8 | AZ588035 |
| 35 | 7.6 | 38.0 | 19 | 8 | AZ613058 |
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| 37 | 7.6 | 38.0 | 19 | 8 | AZ623412 |
| 38 | 7.6 | 38.0 | 20 | 1 | AJ583888 |
| 39 | 7.6 | 38.0 | 20 | 4 | BF966452 |
| 40 | 7.6 | 38.0 | 20 | 4 | BM398906 |
| 41 | 7.6 | 38.0 | 20 | 8 | AZ475341 |
| 42 | 7.6 | 38.0 | 20 | 8 | AZ480598 |
| 43 | 7.6 | 38.0 | 20 | 8 | AZ590476 |
| 44 | 7.6 | 38.0 | 20 | 8 | AZ786334 |
| 45 | 7.6 | 38.0 | 20 | 8 | AZ792286 |
| 46 | 7.6 | 38.0 | 20 | 9 | AG193233 |
| 47 | 7.6 | 38.0 | 20 | 9 | AG200990 |
| 48 | 7.6 | 38.0 | 20 | 9 | CL439564 |
| 49 | 7.4 | 37.0 | 10 | 9 | AJ600606 |
| 50 | 7.4 | 37.0 | 17 | 9 | CL883716 |
| 51 | 7.4 | 37.0 | 18 | 4 | BM393320 |
| 52 | 7.4 | 37.0 | 18 | 9 | AJ588001 |
| 53 | 7.4 | 37.0 | 18 | 9 | AJ592301 |
| 54 | 7.4 | 37.0 | 18 | 9 | CL695736 |
| 55 | 7.4 | 37.0 | 19 | 1 | AI017940 |
| 56 | 7.4 | 37.0 | 19 | 1 | AI597783 |
| 57 | 7.4 | 37.0 | 19 | 1 | AJ647608 |
| 58 | 7.4 | 37.0 | 19 | 8 | AZ636812 |
| 59 | 7.4 | 37.0 | 19 | 8 | AZ785518 |
| 60 | 7.4 | 37.0 | 19 | 9 | CL671134 |
| 61 | 7.4 | 37.0 | 20 | 1 | AJ683142 |
| 62 | 7.4 | 37.0 | 20 | 1 | AJ683142 |
| 63 | 7.4 | 37.0 | 20 | 5 | BQ593049 |
| 64 | 7.4 | 37.0 | 20 | 8 | AZ313204 |
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| 67 | 7.4 | 37.0 | 20 | 8 | AZ581459 |
| 68 | 7.4 | 37.0 | 20 | 8 | AZ637439 |
| 69 | 7.4 | 37.0 | 20 | 8 | AZ656648 |
| 70 | 7.4 | 37.0 | 20 | 8 | AZ816586 |
| 71 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
| 72 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
| 73 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
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| 77 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
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| 79 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
| 80 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
| 81 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
| 82 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
| 83 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
| 84 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
| 85 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
| 86 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
| 87 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
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| 89 | 7.4 | 37.0 | 20 | 8 | AZ838929 |
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| CL423931 | 02S0166-0-3  |
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| AA915433 | vz30F01.r    |
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| AZ588035 | 1M0396G171   |
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| AZ792286 | 2M0043G080   |
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| AJ592301 | ArabiIdoppo  |
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| AJ683142 | 1M0136134    |
| AJ683142 | 1            |

C 98 7.2 36.0 19 4 BM397569 BM397569 5009-0-34  
C 99 7.2 36.0 19 4 BM399684 BM399684 5009-0-60  
C 100 7.2 36.0 19 6 C01992 C01992 HUMGS000401

## ALIGNMENTS

RESULT 1  
C0792214 19 bp mRNA linear EST 05-AUG-2004  
LOCUS NT014C A10 St18-22 Neural tube (NT) Ambystoma mexicanum cDNA 5'  
DEFINITION similar to hypothetical protein, mRNA sequence.

ACCESSION C0792214  
VERSION C0792214.1 GI:51008185  
KEYWORDS EST.

SOURCE Ambystoma mexicanum (axolotl)

ORGANISM Ambystoma mexicanum

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomatidae;  
Ambystoma.

REFERENCE 1 (bases 1 to 19)

AUTHORS Habermann, B., Bebin, A.G., Herklitz, S., Volkmer, M., Eckelt, K.,  
Pehlke, K., Epperlein, H.H., Schackert, H.K., Wiebe, G. and Tanaka, E.M.  
TITLE An Ambystoma mexicanum EST sequencing project: Analysis of 17,352  
expressed sequence tags from embryonic and regenerating blastema  
cDNA libraries

JOURNAL Genome Biol. (2004) In press

COMMENT Contact: Elly M. Tanaka

Tanaka Lab

Max Planck Institute of Molecular Cell Biology and Genetics,  
Dresden

Froehnerstrasse 108, 01307 Dresden, Germany

Tel: 0049 351 210 2620

Fax: 0049 351 210 1489

Email: tanaka@mpi-cbg.de

Plate: NT014C row: 10 column: A

Seq primer: GCN CAT TAG GCC TAT TTA GGT GAC A.

Location/Qualifiers

FEATURES

source

1..19

/organism="Ambystoma mexicanum"

/mol\_type="mRNA"

/db\_xref="taxon:8296"

/tissue\_type="Neural Tube, Notochord, Somites"

/cell\_type="Includes Neural tube, notochord, somites"

/dev\_stage="Stage 18-22"

/clone\_lib="St18-22 Neural tube (NT)"

/note="Vector: pCMVSPORT6; Site 1: NotI; Site 2: SalI;

Unnormalized cDNA plasmid library prepared by Invitrogen.

Size fractionated mRNA was polyA primed and cloned into

NotI-SalI site of pCMVSPORT6. Bacterial host is

EMDH10B-TONA. Average insert size is 1.5 kb.

TAG\_LIB=NT"

ORIGIN

Query Match 51.0%; Score 10.2; DB 7; Length 19;  
Best Local Similarity 80.0%; Pred. No. 1.4e+06;  
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCTC 17

|||||

Db 1 CCGCAGAGGCTTAC 15

RESULT 2

AZ309643

LOCUS

DEFINITION AZ309643 19 bp DNA linear GSS 29-SEP-2000

1M0016E23F Mouse 10kb plasmid UUGC1M library Mus musculus genomic

clone UUGC1M0016E23 F, genomic survey sequence.

ACCESSION AZ309643

VERSION AZ309643.1 GI:10350661

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 19)

AUTHORS

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,

Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,

Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von

Niederhausern, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0016 row: E column: 23

Seq primer: CGTTGTAAACGACGCCAGT

Class: plasmid ends

High quality sequence stop: 19.

FEATURES

source

1..19

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC1M0016E23"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adapted DNA was purified and size-selected for a 9.5 to

10.5 kb range using preparative agarose gel

electrophoresis. Vector DNA was prepared from a derivative

of pWD42 (gi|4732114|gb|AF129072.1), a copy-number

inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and

purified. The sheared, adapted mouse DNA was annealed to

adapted vector DNA, and transformed into

chemically-competent E. coli XL10-Gold (Stratagene) cells

and selected for ampicillin resistance."

ORIGIN

Query Match 49.0%; Score 9.8; DB 8; Length 19;  
Best Local Similarity 84.6%; Pred. No. 2.3e+06;  
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTC 17

|||||

Db 3 GCACAGAGTCTC 15

RESULT 3

AZ660128/c

LOCUS

DEFINITION AZ660128 20 bp DNA linear GSS 14-DEC-2000

1M0538G04F Mouse 10kb plasmid UUGC1M library Mus musculus genomic

clone UUGC1M0538G04 F, genomic survey sequence.

ACCESSION AZ660128

VERSION AZ660128.1 GI:11797274

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

```

ORGANISM      Mus musculus
REFERENCE      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS        Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 20)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D. Weiss,R.
TITLE          Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL        Unpublished (2000)
COMMENT        Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0538 row: G column: 04
Seq primer: CGTGTAAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 20.
Location/Qualifiers
1. .20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0538G04"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Ti-resistant, F-"
/clone_lib="Mouse 10kb Plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (G14732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN
Query Match 48.0%; Score 9.6; DB 8; Length 20;
Best Local Similarity 75.0%; Pred. No. 3e+06;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTCAGA 20
Db 20 GCATAGATATATCATATA 5

RESULT 4
CL681189/c
LOCUS          CL681189
DEFINITION    PRI0130b_G06_2 - PRI0130b.BR (17) Mixed stage fosmid library of P.
pacificus var. California Pristionchus pacificus genomic, genomic
survey sequence.
ACCESSION     CL681189
VERSION       CL681189.1 GI:50188197
KEYWORDS      GSS.

CL681189
17 bp DNA linear GSS 09-JUL-2004
PRI0130b_G06_2 - PRI0130b.BR (17) Mixed stage fosmid library of P.
pacificus var. California Pristionchus pacificus genomic, genomic
survey sequence.
CL681189
CL681189.1 GI:50188197
GSS.

```

```

SOURCE
ORGANISM      Pristionchus pacificus
REFERENCE      Pristionchus pacificus
AUTHORS        Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;
Neodiplogasteridae; Pristionchus.
1 (bases 1 to 17)
Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.
AppADB: an AcedB database for the nematode satellite organism
Pristionchus pacificus
Nucleic Acids Res. 32 (1), D421-D422 (2004)
Contact: Sommer RJ
Evolutionary Biology
Max-Planck-Institute for Developmental Biology
Spemannstr. 37-39, Tuebingen D-72076, Germany
Tel: 00497071601371
Fax: 00497071601498
Email: ralf.sommer@tuebingen.mpg.de
This library was generated at Caltech, Pasadena, USA and end
sequenced at Vancouver, Canada.
Seq primer: T7
Class: fosmid ends.
Location/Qualifiers
1. .17
/organism="Pristionchus pacificus"
/mol_type="genomic DNA"
/strain="California"
/db_xref="taxon:54126"
/clone_lib="Mixed stage fosmid library of P. pacificus
var. California"
/notes="Vector: pEpifos-5 Fosmid vector"

ORIGIN
Query Match 46.0%; Score 9.2; DB 9; Length 17;
Best Local Similarity 78.6%; Pred. No. 4.8e+06;
Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCT 16
Db 15 CTGCAGACTACTTCT 2

RESULT 5
BQ593906/c
LOCUS          BQ593906
DEFINITION    S015504-024-025-M13-SP6 MP1Z-ADIS-024-developing root Beta vulgaris
cDNA clone 024-025-M13 5-PRIME, mRNA sequence.
ACCESSION     BQ593906.1 GI:26123489
VERSION       BQ593906
KEYWORDS      EST.
SOURCE        Beta vulgaris
ORGANISM      Beta vulgaris
REFERENCE      Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
AUTHORS        Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Amaranthaceae; Beta.
1 (bases 1 to 18)
Herwig,R., Schulz,B., Weisshaar,B., Hennig,S., Steinfath,M.,
Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,J., Lehrach,H.
and Radelof,U.
Construction of a 'unigene' cDNA clone set by oligonucleotide
fingerprinting allows access to 25 000 potential sugar beet genes
Plant J. 32 (5), 845-857 (2002)
JOURNAL        22362189
MEDLINE        22362189
PUBMED        12472698
COMMENT        Contact: Weisshaar B
ADIS DNA core facility at MP1Z
Max-Planck-Institute for Plant Breeding Research
Carl-von-Linne Weg 10, 50829 Koeln, Germany
Fax: 00492215062851
Email: weisshaar@mpiz-koeln.mpg.de
Insert Length: 18 Std Error: 0.00
Plate: 25 row: M column: 13
Seq primer: SP6; CATACGATTTAGTGACACTAG.
Location/Qualifiers
1. .18

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|                       |  | /organism="Beta vulgaris"<br>/mol_type="mRNA"<br>/cultivar="KWS2320 (double haploid, monogerm breeding line)"<br>/db_xref="GABI:192944"<br>/db_xref="taxon:161934"<br>/clone="024-025-M13"<br>/tissue_type="developing root"<br>/lab_host="EMDH108"<br>/clone_lib="MP1Z-ADIS-024-developing root"<br>/note="Vector: pCMVSPORT6; Site 1: Sali; Site 2: NotI; cDNA library from sugar beet, library provided by KWS Kleinzellbener Saatgut AG Einbeck, Germany, contact: b.schulz@kws.de; cloning sites Sali-NotI, primer sites and orientation:<br>SP6-Sali-CCACGGCTCG-5prime-cDNA-polyA-CC-NotI-T7; Note: Sequencing granted in the context of the GABI-Beet project, local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database: http://gabi.rzpd.de" |  | Best Local Similarity 100.0%; Pred. No. 6.3e+06;<br>Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0; |  |
|                       |  | QY 12 CTTCTCAGA 20<br>     <br>Db 5 CTTCTCAGA 13  |  |  |  |
| RESULT 7              |  | CL671780 19 bp DNA linear GSS 09-JUL-2004   |  |  |  |
| LOCUS                 |  | PR10165c.F12 - PR10165c.B21 (19) Mixed stage fosmid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.  |  |  |  |
| DEFINITION            |  |   |  |  |  |
| ACCESSION             |  | CL671780.1 GI:50171182  |  |  |  |
| VERSION               |  | GSS.  |  |  |  |
| KEYWORDS              |  | Pristionchus pacificus  |  |  |  |
| SOURCE                |  | Pristionchus pacificus  |  |  |  |
| ORGANISM              |  | Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida; Neodiplogasteridae; Pristionchus.  |  |  |  |
| REFERENCE             |  | 1 (bases 1 to 19)<br>Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J. AppADB: an AcedB database for the nematode satellite organism Pristionchus pacificus   |  |  |  |
| AUTHORS               |  | Nucleic Acids Res. 32 (1), D421-D422 (2004)   |  |  |  |
| TITLE                 |  | Contact: Sommer RJ  |  |  |  |
| JOURNAL               |  | Evolutionary Biology  |  |  |  |
| COMMENT               |  | Max-Planck-Institute for Developmental Biology<br>Spemannstr. 37-39, Tuebingen D-72076, Germany<br>Tel: 00497071601371<br>Fax: 00497071601498<br>Email: ralf.sommer@uebingen.mpg.de<br>This library was generated at Caltech, Pasadena, USA and end sequenced at Vancouver, Canada.<br>Seq primer: T7<br>Class: fosmid ends.  |  |  |  |
| FEATURES              |  | Location/Qualifiers<br>1..19<br>/organism="Pristionchus pacificus"<br>/mol_type="genomic DNA"<br>/strain="California"<br>/db_xref="taxon:54126"<br>/clone_lib="Mixed stage fosmid library of P. pacificus var. California"<br>/note="Vector: pEpifos-5 Fosmid vector"   |  |  |  |
| source                |  |   |  |  |  |
| ORIGIN                |  |   |  |  |  |
| Query Match           |  | 45.0%; Score 9; DB 9; Length 19;  |  |  |  |
| Best Local Similarity |  | 70.6%; Pred. No. 6.3e+06;   |  |  |  |
| Matches               |  | 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;   |  |  |  |
| QY                    |  | 4 CGCATAGACTTCTCAGA 20<br>  |  |  |  |
| Db                    |  | 2 CGCTGCAACTTCTCGGA 18<br>  |  |  |  |
| RESULT 8              |  | AG188131 20 bp DNA linear GSS 06-MAR-2004   |  |  |  |
| AG188131              |  | Pan troglodytes DNA, clone: RP43-061K12.T7, genomic survey sequence.  |  |  |  |
| LOCUS                 |  |   |  |  |  |
| DEFINITION            |  |   |  |  |  |
| ACCESSION             |  | AG188131  |  |  |  |
| VERSION               |  | AG188131.1 GI:45220300  |  |  |  |
| KEYWORDS              |  | GSS.  |  |  |  |
| SOURCE                |  | Pan troglodytes (chimpanzee)  |  |  |  |
| ORGANISM              |  | Pan troglodytes   |  |  |  |
| REFERENCE             |  | 1<br>Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.  |  |  |  |
| AUTHORS               |  | Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J., Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.   |  |  |  |
| TITLE                 |  | BAC end sequences of Library RP-43  |  |  |  |

Unpublished  
2 (bases 1 to 20)  
REFERENCE  
AUTHORS Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J., Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.  
TITLE Direct Submission  
JOURNAL Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (KRIIBB), Genome Research Center (GRC); 52, Oun-dong, Yuseong-gu, Daejeon 305-333, Korea  
(E-mail: redstone@mail.kribb.re.kr, URL: http://phs.grc.kribb.re.kr/, Tel: 82-42-866-7181, Fax: 82-42-860-4409)  
COMMENT Clones are derived from the chimpanzee BAC library RP-43 This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.  
PRIMERS  
Sequencing: T7  
LIBRARY  
Vector : pBACe3.6  
R.Site 1 : EcoRI  
R.Site 2 : EcoRI.  
Location/Qualifiers  
1..20  
/organism="Pan troglodytes"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9598"  
/clone="RP43-061K12.T7"  
/sex="male"  
/cell\_type="lymphocytes"  
/clone\_lib="RP-43 Chimpanzee Male BAC Library"  
ORIGIN  
Query Match 45.0%; Score 9; DB 9; Length 20;  
Best Local Similarity 70.6%; Pred. No. 6.3e+06;  
Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 1 GACCGCATAGACTTCTC 17  
|||||  
Db 3 GACCCAATCGATTACTC 19  
RESULT 9  
BQ585512/c 16 bp mRNA linear EST 06-DEC-2002  
LOCUS E012305-024-008-E21-SP6 MP12-ADIS-024-inflorescence Beta vulgaris  
DEFINITION CDNA clone 024-008-E21 5-PRIME, mRNA sequence.  
ACCESSION BQ585512  
VERSION BQ585512.1 GI:26115094  
KEYWORDS EST.  
SOURCE Beta vulgaris  
ORGANISM Beta vulgaris  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Amaranthaceae; Beta.  
REFERENCE 1 (bases 1 to 16)  
AUTHORS Herwig, R., Schulz, B., Weisshaar, B., Hennig, S., Steinfath, M., Drungowski, M., Stahl, D., Wuck, W., Menze, A., O'Brien, J., Lehtach, H. and Radelof, U.  
TITLE Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes  
JOURNAL Plant J. 32 (5), 845-857 (2002)  
MEDLINE 22362189  
PUBMED 12472698  
COMMENT Contact: Weisshaar B  
ADIS DNA core facility at MP12  
Max-Planck-Institute for Plant Breeding Research  
Carl-von-Linne Weg 10, 50829 Koeln, Germany  
Fax: 00492215062851  
Email: weisshaar@mpiz-koeln.mpg.de  
Insert Length: 16 Std Error: 0.00  
Plate: 8 row: E column: 21  
Seq primer: SP6; CATACCATTTAGTGACACTATAG.  
Location/Qualifiers  
1..16  
/organism="Beta vulgaris"  
Unpublished  
2 (bases 1 to 20)  
REFERENCE  
AUTHORS Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J., Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.  
TITLE Direct Submission  
JOURNAL Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (KRIIBB), Genome Research Center (GRC); 52, Oun-dong, Yuseong-gu, Daejeon 305-333, Korea  
(E-mail: redstone@mail.kribb.re.kr, URL: http://phs.grc.kribb.re.kr/, Tel: 82-42-866-7181, Fax: 82-42-860-4409)  
COMMENT Clones are derived from the chimpanzee BAC library RP-43 This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.  
PRIMERS  
Sequencing: T7  
LIBRARY  
Vector : pBACe3.6  
R.Site 1 : EcoRI  
R.Site 2 : EcoRI.  
Location/Qualifiers  
1..20  
/organism="Pan troglodytes"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9598"  
/clone="RP43-061K12.T7"  
/sex="male"  
/cell\_type="lymphocytes"  
/clone\_lib="RP-43 Chimpanzee Male BAC Library"  
ORIGIN  
Query Match 45.0%; Score 9; DB 9; Length 20;  
Best Local Similarity 70.6%; Pred. No. 6.3e+06;  
Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 1 GACCGCATAGACTTCTC 17  
|||||  
Db 3 GACCCAATCGATTACTC 19  
RESULT 9  
BQ585512/c 16 bp mRNA linear EST 06-DEC-2002  
LOCUS E012305-024-008-E21-SP6 MP12-ADIS-024-inflorescence Beta vulgaris  
DEFINITION CDNA clone 024-008-E21 5-PRIME, mRNA sequence.  
ACCESSION BQ585512  
VERSION BQ585512.1 GI:26115094  
KEYWORDS EST.  
SOURCE Beta vulgaris  
ORGANISM Beta vulgaris  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Amaranthaceae; Beta.  
REFERENCE 1 (bases 1 to 16)  
AUTHORS Herwig, R., Schulz, B., Weisshaar, B., Hennig, S., Steinfath, M., Drungowski, M., Stahl, D., Wuck, W., Menze, A., O'Brien, J., Lehtach, H. and Radelof, U.  
TITLE Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes  
JOURNAL Plant J. 32 (5), 845-857 (2002)  
MEDLINE 22362189  
PUBMED 12472698  
COMMENT Contact: Weisshaar B  
ADIS DNA core facility at MP12  
Max-Planck-Institute for Plant Breeding Research  
Carl-von-Linne Weg 10, 50829 Koeln, Germany  
Fax: 00492215062851  
Email: weisshaar@mpiz-koeln.mpg.de  
Insert Length: 16 Std Error: 0.00  
Plate: 8 row: E column: 21  
Seq primer: SP6; CATACCATTTAGTGACACTATAG.  
Location/Qualifiers  
1..16  
/organism="Beta vulgaris"

/mol\_type="mRNA"  
/cultivar="KWS2320 (double haploid, monogerm breeding line)"  
/db\_xref="GABI:184446"  
/db\_xref="taxon:161934"  
/clone="024-008-E21"  
/tissue\_type="inflorescence"  
/lab\_host="EMPH108"  
/clone\_lib="MP12-ADIS-024-inflorescence"  
/note="Vector: pCMVSPORT6; Site 1: SalI; Site 2: NotI; cDNA library from sugar beet, library provided by KWS Kleinwanzlebener Saatzzucht AG Binbeck, Germany, contact: b.schulz@kws.de; cloning sites SalI-NotI, primer sites and orientation:  
SP6-SalI-CCACGCGTCCG-5prime-cDNA-polyA-CC-NotI-T7; Note: Sequencing granted in the context of the GABI-Beet project, local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database: http://gabi.rzpd.de"  
ORIGIN  
Query Match 44.0%; Score 8.8; DB 5; Length 16;  
Best Local Similarity 83.3%; Pred. No. 7.8e+06;  
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 7 ATAGACTTTCTCA 18  
|||||  
Db 16 ATAGGCTTGTC A 5  
RESULT 10  
AZ585898 19 bp DNA linear GSS 13-DEC-2000  
LOCUS 1M0391122F Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
DEFINITION clone UUGC1M0391122 F, genomic survey sequence.  
ACCESSION AZ585898  
VERSION AZ585898.1 GI:11708088  
KEYWORDS GSS.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
REFERENCE 1 (bases 1 to 19)  
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A. and Wright, D., Weiss, R.  
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
JOURNAL Unpublished (2000)  
COMMENT Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0391 row: L column: 22  
Seq primer: CGTTGTAAACGACGCCAGT  
Class: plasmid ends  
High quality sequence stop: 19.  
Location/Qualifiers  
1..19  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0391122"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/notes=Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt-end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (GI|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 44.0%; Score 8.8; DB 8; Length 19;  
Best Local Similarity 83.3%; Pred. No. 8e+06;  
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 GCATGACTTCT 16  
|||||  
Db 3 GCATGACTTCT 14

## RESULT 11

AG187931/c  
LOCUS 20 bp DNA linear GSS 06-MAR-2004  
DEFINITION Pan troglodytes DNA, clone: RP43-061C23.TJ, genomic survey sequence.

ACCESSION AG187931

VERSION AG187931.1 GI:45220100

KEYWORDS GSS.

SOURCE Pan troglodytes (chimpanzee)

## ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.

## REFERENCE

1

AUTHORS Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J.,

Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.

BAC end sequences of Library RP-43

UNPUBLISHED

2 (bases 1 to 20)

AUTHORS Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J.,

Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.

Direct Submission  
Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (KRIIB), Genome Research Center (GRC); 52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea

(E-mail: redstone@mail.kribb.re.kr, URL: <http://phs.grc.kribb.re.kr/>, Tel: 82-42-866-7181, Fax: 82-42-860-4409)

Clones are derived from the chimpanzee BAC library RP-43 This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.

## PRIMERS

Sequencing: TJ

## LIBRARY

Vector : pBACe3.6

R.Site 1 : EcoRI

R.Site 2 : EcoRI.

Location/Qualifiers

1. .20

/organism="Pan troglodytes"

/mol\_type="genomic DNA"

/db\_xref="taxon:9598"

/clone="RP43-061C23.TJ"

/sex="male"

/cell\_type="lymphocytes"

## FEATURES

source

## ORIGIN

Query Match 44.0%; Score 8.8; DB 9; Length 20;  
Best Local Similarity 83.3%; Pred. No. 8.1e+06;  
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 9 AGACTTCTCAGA 20  
|||||  
Db 13 AGCATCTTCAGA 2

## RESULT 12

AG200702/c

LOCUS 20 bp DNA linear GSS 06-MAR-2004

DEFINITION Pan troglodytes DNA, clone: RP43-082N04.TJ, genomic survey sequence.

ACCESSION AG200702

VERSION AG200702.1 GI:45232877

KEYWORDS GSS.

SOURCE Pan troglodytes (chimpanzee)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.  
1

AUTHORS Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J.,

Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.

BAC end sequences of Library RP-43

UNPUBLISHED

2 (bases 1 to 20)

AUTHORS Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J.,

Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.

Direct Submission

Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (KRIIB), Genome Research Center (GRC); 52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea  
(E-mail: redstone@mail.kribb.re.kr, URL: <http://phs.grc.kribb.re.kr/>, Tel: 82-42-866-7181, Fax: 82-42-860-4409)

Clones are derived from the chimpanzee BAC library RP-43 This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.

## PRIMERS

Sequencing: TJ

## LIBRARY

Vector : pBACe3.6

R.Site 1 : EcoRI

R.Site 2 : EcoRI.

Location/Qualifiers

1. .20

/organism="Pan troglodytes"

/mol\_type="genomic DNA"

/db\_xref="taxon:9598"

/clone="RP43-082N04.TJ"

/sex="male"

/cell\_type="lymphocytes"

/clone\_lib="RP-43 Chimpanzee Male BAC Library"

## ORIGIN

Query Match 44.0%; Score 8.8; DB 9; Length 20;  
Best Local Similarity 83.3%; Pred. No. 8.1e+06;  
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CATAGACTTCTC 17  
|||||  
Db 12 CATAGATTCTCC 1

## RESULT 13

AJ684587/c

LOCUS 16 bp mRNA linear EST 29-JUN-2004

DEFINITION CSEORAN04 Sus scrofa cDNA clone C0001805\_G15, mRNA sequence.

ACCESSION AJ684587



```

VERSION      AJ684587.1  GI:49417177
KEYWORDS     EST.
SOURCE       Sus scrofa (pig)
ORGANISM     Sus scrofa
REFERENCE    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS      Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
TITLE        1 (bases 1 to 16)
JOURNAL      Anderson,S.I., Finlayson,H.A. and Archibald,A.L.
COMMENT      Development of cDNA and EST resources for studying reproduction and
              embryo development in pigs and cattle
              Unpublished (2004)
              Contact: Anderson SI
              Genomics and Bioinformatics
              Roslin Institute
              Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
              Single pass sequencing. Bases called and trimmed with phred
              v0.020425.c. Vector identified by cross_match with the -minscore 20
              and -minmatch 12 options. Vector:pBluescriptII(KS+) R. Site1: EcoRI
              R. Site2: NotI 5' Seq Primer M13F Normalised library constructed
              from pig uterus. Clones available from UK Centre for Functional
              Genomics in Farm Animals, Roslin Institute, Roslin, Midlothian, UK,
              EH25 9PS, www.arkgenomics.org.
FEATURES     source
              1..16
                /organism="Sus scrofa"
                /mol_type="mRNA"
                /db_xref="taxon:9823"
                /clone="C0001805_G15"
                /tissue_type="uterus"
                /clone_lib="CSQRAN04"
                /note="Vector: pBluescriptII(KS+); Site 1: EcoRI; Site 2:
                NotI: Single pass sequencing. Normalised library
                constructed from pig uterus."
ORIGIN
Query Match      43.0%; Score 8.6; DB 1; Length 16;
Best Local Similarity 73.3%; Pred. No. 1e+07;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      3  CCGCATAGACTTCTC 17
        |||||
DB      15  CAGATAGACTCTTC 1
        |||||

RESULT 14
AZ309116
LOCUS
DEFINITION      19 bp DNA linear GSS 29-SBP-2000
clone UGCLM0012E23 R, genomic survey sequence.
ACCESSION      AZ309116
VERSION        AZ309116.1  GI:10349784
KEYWORDS       GSS.
SOURCE         Mus musculus (house mouse)
ORGANISM       Mus musculus
REFERENCE
AUTHORS         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D. Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00

Plate: 0012 row: E column: 23
Seq primer: CACACGAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
FEATURES     source
              1..19
                /organism="Mus musculus"
                /mol_type="genomic DNA"
                /strain="C57BL/6J"
                /db_xref="taxon:10090"
                /clone="UGCLM0012E23"
                /sex="Male"
                /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
                /clone_lib="Mouse 10kb plasmid UGCLM library"
                /note="Vector: PWD42nv; Purified genomic DNA from M.
                musculus C57BL/6J (male) was obtained from the Jackson
                Laboratory Mouse DNA Resource
                (http://www.jax.org/resources/documents/dnares/). The DNA
                was hydrodynamically sheared by repeated passage through a
                0.005 inch orifice at constant velocity. The sheared DNA
                was blunt end-repaired with T4 DNA polymerase and T4
                polynucleotide kinase. Adaptor oligonucleotides were
                ligated to the blunt ends in high molar excess. The
                adaptor DNA was purified and size-selected for a 9.5 to
                10.5 kb range using preparative agarose gel
                electrophoresis. Vector DNA was prepared from a derivative
                of PWD42 (gi|4732114|gb|AF129072.1), a copy-number
                inducible derivative of plasmid R1. The vector was ligated
                with adaptors complementary to the insert adaptors and
                purified. The sheared, adaptor mouse DNA was annealed to
                adaptor vector DNA, and transformed into
                chemically-competent E. coli XL10-Gold (Stratagene) cells
                and selected for ampicillin resistance."
ORIGIN
Query Match      43.0%; Score 8.6; DB 8; Length 19;
Best Local Similarity 73.3%; Pred. No. 1e+07;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2  ACCGCATAGACTTCT 16
        |||||
DB      5  ACCAATCTACTTCT 19
        |||||

RESULT 15
COT83852
LOCUS
DEFINITION      20 bp mRNA linear EST 05-AUG-2004
BL279A_E02 6-Day Axolotl Tail Blastema (6DAXBL) Ambystoma mexicanum
cDNA 57 similar to hypothetical protein, mRNA sequence.
ACCESSION      COT83852
VERSION        COT83852.1  GI:50999832
KEYWORDS       EST.
SOURCE         Ambystoma mexicanum (axolotl)
ORGANISM       Ambystoma mexicanum
REFERENCE
AUTHORS         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomatidae;
Ambystoma.
1 (bases 1 to 20)
Habermann,B., Bebin,A.G., Herklotz,S., Volkmer,M., Eckelt,K.,
Pehlke,K., Epperlein,H.H., Schackert,H.K., Wiebe,G. and Tanaka,E.M.
An Ambystoma mexicanum EST sequencing project: Analysis of 17,352
expressed sequence tags from embryonic and regenerating blastema
cDNA libraries
Genome Biol. (2004) In press
Contact: Elly M. Tanaka
Tanaka Lab
Max Planck Institute of Molecular Cell Biology and Genetics,
Dresden
Pfortenhauerstrasse 108,01307 Dresden, Germany
Tel: 0049 351 210 2620
Fax: 0049 351 210 1489
Email: tanaka@mpi-cbg.de
Plate: BL279A row: 02 column: E

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```

Db          5 ACTTCTAGA 14

RESULT 18
AZ313531/c
LOCUS      19 bp      DNA      linear      GSS 29-SEP-2000
DEFINITION 1M0029N07R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0029N07 R, genomic survey sequence.
ACCESSION  AZ313531
VERSION     AZ313531.1  GI:10358522
KEYWORDS   GSS.
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
REFERENCE  1 (bases 1 to 19)
AUTHORS   Dunn,D., Aoyagi,A., Barber,M., Becsorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,R., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D., Weiss,R.
TITLE     Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL   Unpublished (2000)
COMMENT   Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0029 row: N column: 07
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1..19
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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0029N07"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

FEATURES             source
1..19
Location/Qualifiers
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0029N07"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN
Query Match      42.0%; Score 8.4; DB 8; Length 19;
Best Local Similarity 90.0%; Pred. No. 1.3e+07;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      11 ACTTCTAGA 20
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---

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Db          17 ATTCTCAGA 8

RESULT 19
AZ663240
LOCUS      19 bp      DNA      linear      GSS 14-DEC-2000
DEFINITION 1M0542H18R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0542H18 R, genomic survey sequence.
ACCESSION  AZ663240
VERSION     AZ663240.1  GI:11800386
KEYWORDS   GSS.
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
REFERENCE  1 (bases 1 to 19)
AUTHORS   Dunn,D., Aoyagi,A., Barber,M., Becsorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,R., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D., Weiss,R.
TITLE     Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL   Unpublished (2000)
COMMENT   Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0542 row: H column: 18
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1..19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0542H18"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN
Query Match      42.0%; Score 8.4; DB 8; Length 19;
Best Local Similarity 66.7%; Pred. No. 1.3e+07;
Matches 12; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1 GACCGCATAGACTTCTCA 18
      |||||

```



```

Db      11 CATAGAATTC 2

RESULT 22
CL423466
LOCUS   16 bp      DNA      linear      GSS 16-MAR-2004
DEFINITION
01S0557-03A1-C11 UniformMu MutAIL Library Zea mays genomic clone
CL423466
ACCESSION
01S0557-03A1-C11, genomic survey sequence.
CL423466
VERSION
CL423466.1 GI:45501510
KEYWORDS
GSS.
SOURCE
Zea mays
ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
clade; Panicoideae; Andropogoneae; Zea.
1 (bases 1 to 16)
Lathaw,S., Tan,B.-C., Settles,A.M. and McCarty,D.R.
Sequence tagged transposon insertions from the UniformMu maize
population
Unpublished (2003)
Contact: Donald R. McCarty
Plant Molecular and Cellular Biology Program
University of Florida
PO 110690 Gainesville, FL 32611-0690, USA
Tel: 352-392-1928 x322
Email: drmc@ufl.edu
Sequence Sequence flanking probable Mu insertion site in UniformMu
line: 01S0557-03, Primer set: A
Class: transposon insertion site.
Location/Qualifiers
1..16
/organism="Zea mays"
/mol_type="genomic DNA"
/strain="W22 (ACR, bz1-m9)"
/cultivar="UniformMu"
/db_xref="taxon:4577"
/clone="01A1-C11"
/notes="Vector: TOPO-PCR4; DNA flanking Mu transposon
insertions in Mu inactive lines were extracted from the
UniformMu maize population by the thermo asymmetric
interlaced PCR (TAIL) protocol using primers specific for
the Mu terminal inverted repeat and a set of 16 arbitrary
primers. Amplicons were size enriched using Sepharose 400
spin columns and cloned into the TOPO PCR4 vector."

FEATURES
source
1..16
/organism="Zea mays"
/mol_type="genomic DNA"
/db_xref="taxon:4577"
/clone="01A1-C11"
/lab_host="DH10B"
/clone_lib="NCI_CGAP_Lu5"
/notes="Organ: lung; Vector: pT7T3D-Pac (Pharmacia) with a
modified polylinker; 1st strand cDNA was prepared from
neuroendocrine lung carcinoma, and was then primed with a
Not I - oligo(dT) primer. Double-stranded cDNA was ligated
to Eco RI adaptors (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of the modified
pT7T3 vector. Library is normalized. Library was
constructed by Bento Soares and M. Fatima Bonaldo. "

ORIGIN
Query Match 41.0%; Score 8.2; DB 9; Length 16;
Best Local Similarity 76.9%; Pred. No. 1.6e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTC 17
| | | | | | |
4 GAACAGACTTCCC 16

RESULT 23
AA916934/C
LOCUS   19 bp      mRNA      linear      EST 17-JUN-1998
DEFINITION
on14a09.s1 NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1556632 3,
similar to SW:R13_MOUSE P28662 BRAIN PROTEIN I3 ;, mRNA sequence.
AA916934
ACCESSION
AA916934.1 GI:3056326
VERSION
AA916934.1
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 19)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index

JOURNAL COMMENT
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 444 Std Error: 0.00
Seq primer: ~40m13 fwd. ET from Amersham
High quality sequence stop: 1.
FEATURES
source
1..19
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1556632"
/tissue_type="carcinoid"
/lab_host="DH10B"
/clone_lib="NCI_CGAP_Lu5"
/notes="Organ: lung; Vector: pT7T3D-Pac (Pharmacia) with a
modified polylinker; 1st strand cDNA was prepared from
neuroendocrine lung carcinoma, and was then primed with a
Not I - oligo(dT) primer. Double-stranded cDNA was ligated
to Eco RI adaptors (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of the modified
pT7T3 vector. Library is normalized. Library was
constructed by Bento Soares and M. Fatima Bonaldo. "

ORIGIN
Query Match 41.0%; Score 8.2; DB 1; Length 19;
Best Local Similarity 76.9%; Pred. No. 1.7e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19
| | | | | | |
15 ATAGAGTTTGCAG 3

RESULT 24
AZ414372/C
LOCUS   19 bp      DNA      linear      GSS 03-OCT-2000
DEFINITION
1M0188G18R Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGCIM0188G18 R, genomic survey sequence.
AZ414372
ACCESSION
AZ414372.1 GI:10538385
VERSION
GSS.
KEYWORDS
SOURCE
Mus musculus (house mouse)
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00

```

Plate: 0188 row: G column: 18  
 Seq primer: CACACAGAAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 19.

# FEATURES

Location/Qualifiers  
 1..19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0188G18"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN  
 Query Match 41.0%; Score 8.2; DB 8; Length 19;  
 Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 5 GCATAGACTTCTC 17  
 | | | | | | | |  
 Db 13 GTAAGACTCTC 1

# RESULT 25

AZ436629/c  
 LOCUS  
 DEFINITION 19 bp DNA linear GSS 03-OCT-2000  
 clone UUGC1M0224019 F, genomic survey sequence.  
 ACCESSION AZ436629  
 VERSION 1  
 KEYWORDS  
 SOURCE GSS.  
 Mus musculus (house mouse)  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
 1 (bases 1 to 19)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00

# RESULT 26

AZ454430/c  
 LOCUS  
 DEFINITION 19 bp DNA linear GSS 04-OCT-2000  
 clone UUGC1M0256F21 F, genomic survey sequence.  
 ACCESSION AZ454430  
 VERSION 1  
 KEYWORDS  
 SOURCE GSS.  
 Mus musculus (house mouse)  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
 1 (bases 1 to 19)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00

Plate: 0224 row: O column: 19  
 Seq primer: CGTTGTAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 19.

# FEATURES

Location/Qualifiers  
 1..19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0224019"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN  
 Query Match 41.0%; Score 8.2; DB 8; Length 19;  
 Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 6 CATAGACTTCTCA 18  
 | | | | | | | |  
 Db 18 CATCAAGTTCTCA 6

Plate: 0256 row: F column: 21  
 Seq primer: CGTGTGAAAAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 19.

## FEATURES

Location/Qualifiers  
 1. .19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0258F21"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;  
 Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 7 ATAGACTTCTCAG 19  
 ||| ||| ||| |||  
 Db 19 ATATATATCCACG 7

RESULT 27  
 AZ647364/c  
 LOCUS  
 DEFINITION  
 1M0513016R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0513016 R, genomic survey sequence.  
 ACCESSION  
 AZ647364  
 VERSION  
 AZ647364.1 GI:11778756  
 KEYWORDS  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 19)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00

REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL  
 COMMENT

Plate: 0513 row: O column: 16  
 Seq primer: CACACAGGAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 19.

## FEATURES

Location/Qualifiers  
 1. .19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0513016"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;  
 Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1 GACCGCATAGACT 13  
 ||| ||| ||| |||  
 Db 13 GACAGCATACACT 1

RESULT 28  
 AZ655870  
 LOCUS  
 DEFINITION  
 1M05311N06F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M05311N06 F, genomic survey sequence.  
 ACCESSION  
 AZ655870  
 VERSION  
 AZ655870.1 GI:11793016  
 KEYWORDS  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 19)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00

REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL  
 COMMENT

Plate: 0531 row: N column: 06  
Seq primer: CGTTGTAACGACGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 19.  
Location/Qualifiers

# FEATURES

source

1. .19  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0531N06"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

# ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;  
Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 ACCGATGACGTT 14

Db 6 ATCGCTCAGCTT 18

# RESULT 29

AZ783477  
LOCUS  
DEFINITION  
2M0025D18F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0025D18 F, genomic survey sequence.  
AZ783477  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
Mus musculus (house mouse)  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 19)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D. Weiss,R.  
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00

# REFERENCE

# AUTHORS

# TITLE

# JOURNAL

# COMMENT

Plate: 0025 row: D column: 18  
Seq primer: CGTTGTAACGACGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 19.  
Location/Qualifiers

# FEATURES

source

1. .19  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0025D18"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

# ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;  
Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 CGCATGACGTTCT 16

Db 7 CGCATGCTCTCTCT 19

# RESULT 30

AJ594088/c  
LOCUS  
DEFINITION  
AJ594088 Arabidopsis thaliana T-DNA flanking sequence, left border, clone 392P11, genomic survey sequence.  
AJ594088  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
Arabidopsis thaliana (thale cress)  
GSS; left border; T-DNA flanking sequence.  
Arabidopsis thaliana  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis. 1  
Brunaud,V., Balzerque,S., Dubreucq,B., Aubourg,S., Sanson,F., Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G., Lepiniec,L., Caboche,M. and Lecharny,A.  
T-DNA integration into the Arabidopsis genome depends on sequences of pre-insertion sites  
EMBO Rep. 3 (12), 1152-1157 (2002)  
22363535  
PUBMED  
12446565  
2 (bases 1 to 12)  
Balzerque,S.  
Direct Submission  
Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue Gaston Cremieux, 91057 Evry cedex, FRANCE  
PCR was performed on DNA from transformants of Arabidopsis thaliana plants from INRA (Versailles). The DNA fragment(s) resulting from



the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at <http://dbsgap.versailles.inra.fr/publiclines/>. This sequence has been generated in the framework of the French plant genomics program 'Genoplante' (<http://www.genoplante.com> and <http://genoplante-info.infobiogen.fr>).

## FEATURES

source

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1. .12
  Location/Qualifiers
    /organism="Arabidopsis thaliana"
    /mol_type="genomic DNA"
    /cultivar="Wassilewskija"
    /db_xref="taxon:3702"
    /clone="392F11"
    /clone_lib="Arabidopsis thaliana T-DNA insertion lines"
misc_feature
  1. .12
    /note="T-DNA flanking sequence
    left border"
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## ORIGIN

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Query Match      40.0%; Score 8; DB 9; Length 12;
Best Local Similarity 100.0%; Pred. No. 2e+07;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 7 ATAGACTT 14

Db 10 ATAGACTT 3

## RESULT 31

AZ345710

LOCUS

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DEFINITION      20 bp DNA linear GSS 29-SEP-2000
clone UUGC1M0080H05 R, genomic survey sequence.
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ACCESSION

AZ345710

VERSION

AZ345710.1

GI:10424947

GSS.

SOURCE

Mus musculus (house mouse)

ORGANISM

REFERENCE

AUTHORS

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,

Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,

Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von

Niederhauser,A. and Wright,D.,Weiss,R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert length: 10000 Std Error: 0.00

Plate: 0080 row: H column: 05

Seq primer: CACACAGGAACACGCTATGACC

Class: plasmid ends

High quality sequence stop: 20.

Location/Qualifiers

1. .20

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC1M0080H05"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"

FEATURES

source

```
1. .14
  Location/Qualifiers
    /organism="Zea mays"
    /mol_type="genomic DNA"
    /strain="W22 (ACR, bz1-m9)"
    /cultivar="UniformMu"
    /db_xref="taxon:4577"
    /clone="01S0750-04C1-D08"
    /clone_lib="UniformMu MutAIL Library"
    /note="Vector: TOPO-PCR4; DNA flanking Mu transposon
    insertions in Mu inactive lines were extracted from the
    UniformMu maize population by the thermo asymmetric
    interlaced PCR (TAIL) protocol using primers specific for
    the Mu terminal inverted repeat and a set of 16 arbitrary
    primers. Amplicons were size enriched using Sepharose 400
```

/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PMD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(<http://www.jax.org/resources/documents/dnares/>). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptored DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adaptored mouse DNA was annealed to  
adaptored vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

## ORIGIN

```
Query Match      40.0%; Score 8; DB 8; Length 20;
Best Local Similarity 68.8%; Pred. No. 2.2e+07;
Matches 11; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

QY 2 ACCGCATAGACTTCTC 17

Db 2 AACATATAGTTTCTC 17

## RESULT 32

CL423876

LOCUS

DEFINITION

01S0750-04C1-D08 UniformMu MutAIL Library Zea mays genomic clone

CL423876

ACCESSION

CL423876

VERSION

CL423876.1

GI:45501920

GSS.

SOURCE

Zea mays

ORGANISM

REFERENCE

AUTHORS

Lathaw,S., Tan,B.-C., Settles,A.M. and McCarty,D.R.

Sequence tagged transposon insertions from the UniformMu maize

population

Unpublished (2003)

Contact: Donald R. McCarty

Plant Molecular and Cellular Biology Program

University of Florida

PO 110690 Gainesville, FL 32611-0690, USA

Tel: 352-392-1928 x322

Email: drmc@ufl.edu

Sequence flanking probable Mu insertion site in UniformMu

line: 01S0750-04, Primer set: C

Class: transposon insertion site.

Location/Qualifiers

1. .14

/organism="Zea mays"

/mol\_type="genomic DNA"

/strain="W22 (ACR, bz1-m9)"

/cultivar="UniformMu"

/db\_xref="taxon:4577"

/clone="01S0750-04C1-D08"

/clone\_lib="UniformMu MutAIL Library"

/note="Vector: TOPO-PCR4; DNA flanking Mu transposon

insertions in Mu inactive lines were extracted from the

UniformMu maize population by the thermo asymmetric

interlaced PCR (TAIL) protocol using primers specific for

the Mu terminal inverted repeat and a set of 16 arbitrary

primers. Amplicons were size enriched using Sepharose 400

```

spin columns and cloned into the TOPO PCR4 vector."

ORIGIN
Query Match          39.0%; Score 7.8; DB 9; Length 14;
Best Local Similarity 81.8%; Pred. No. 2.6e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      8 TAGACTTCTCA 18
      |||||
Db      3 TCGACGCTCTCA 13

RESULT 33
LOCUS   CL438505
DEFINITION PST7640-NL-Seq M1CB1 Mus musculus genomic clone PST7640-NL.Seq
similar to Eif4a2, genomic survey sequence.
ACCESSION CL438505
VERSION   CL438505.1 GI:45575122
KEYWORDS GSS.
SOURCE   Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 14)
AUTHORS   Hicks,G.G.
TITLE     www.Escells.ca
JOURNAL   Unpublished (2002)
COMMENT   Mammalian Functional Genomics Centre
Manitoba Institute of Cell Biology, University of Manitoba
ON5029, 675 McDermot Ave, Winnipeg, MB R3E 0V9, Canada
Tel: 204 787 2133
Fax: 204 787 2190
Email: hicks@gcc.umanitoba.ca
U3NeosV1 gene trap. Tag generated by plasmid rescue. Additional
sequence information and target gene cloning can be generated. BS
cell line harboring insertion mutation of target gene is available.
Sequence analysis available from
http://140.193.242.7/esdb/public_search_frame.php?PST=PST7640-NL.Se
q
Class: Gene Trap.
Location/Qualifiers
1..14
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="129 sv"
/db_xref="taxon:10090"
/clone="PST7640-NL.Seq"
/sex="Male"
/cell_type="Embryonic stem cell"
/cell_line="D3H (J1 subclone)"
/clone_lib="M1CB1"
/notes="Vector: U3NeosV1"

ORIGIN
Query Match          39.0%; Score 7.8; DB 9; Length 14;
Best Local Similarity 81.8%; Pred. No. 2.6e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      5 GCATAGACTTC 15
      |||||
Db      4 GCATAAACTAC 14

RESULT 34
AJ587709
LOCUS   AJ587709
DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone
312606, genomic survey sequence.
ACCESSION AJ587709
VERSION   AJ587709.1 GI:37937333
KEYWORDS GSS; left border; T-DNA flanking sequence.

```

```

Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsi.
1
Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F.,
Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
Lepintec,L., Caboche,M. and Lecharny,A.
T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)
22363535
12446565
2 (bases 1 to 18)
Balzergue,S.
Direct Submission
Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE
PCR was performed on DNA from transformants of Arabidopsis thaliana
plants from INRA (Versailles). The DNA fragment(s) resulting from
the PCR were directly sequenced from the left or the right border
to determine the genomic sequence flanking the insertion. T-DNA
derived sequences were removed. Information to order the
corresponding mutant line and a link to a database providing a
graphical display of the insertion site are available at
http://dbgap.versailles.inra.fr/publiclines/. This sequence has
been generated in the framework of the French plant genomics
program 'Genoplatane' (http://www.genoplatane.com and
http://genoplatane-info.infobiogen.fr).
Location/Qualifiers
1..18
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/cultivar="Wassiliewskij"
/db_xref="taxon:3702"
/clone="312G06"
/clone_lib="Arabidopsis thaliana T-DNA insertion lines"
1..18
misc_feature
/notes="T-DNA flanking sequence
left border"

ORIGIN
Query Match          39.0%; Score 7.8; DB 9; Length 18;
Best Local Similarity 81.8%; Pred. No. 2.7e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GACCGCATAGA 11
      |||||
Db      2 GACCTCATCGA 12

RESULT 35
AJ2355195
LOCUS   AJ2355195
DEFINITION 1M0094G22R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0094G22 R, genomic survey sequence.
ACCESSION AJ2355195
VERSION   AJ2355195.1 GI:10467355
KEYWORDS GSS.
SOURCE   Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 19)
AUTHORS   Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss

```

University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0094 Row: G Column: 22  
 Seq primer: CACACAGGAAACGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 19.  
 Location/Qualifiers

# FEATURES

source

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1. .19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0094G22"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
```

## ORIGIN

Query Match 39.0%; Score 7.8; DB 8; Length 19;  
 Best Local Similarity 81.8%; Pred. No. 2.7e+07;  
 Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ACCGCATAGAC 12  
 |||||  
 Db 4 ACAGCATAC 14

RESULT 36  
 AZ422531/c  
 LOCUS 19 bp DNA linear GSS 03-OCT-2000  
 DEFINITION 1M0201E16F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0201E16 F, genomic survey sequence.

ACCESSION AZ422531  
 VERSION AZ422531.1 GI:10546544  
 KEYWORDS GSS.  
 SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 19)

## REFERENCE

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.  
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 JOURNAL Unpublished (2000)  
 COMMENT Contact: Robert B. Weiss

University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0201 row: E column: 16  
 Seq primer: CGTTGTAACACGCGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 19.  
 Location/Qualifiers

# FEATURES

source

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1. .19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0201E16"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
```

## ORIGIN

Query Match 39.0%; Score 7.8; DB 8; Length 19;  
 Best Local Similarity 81.8%; Pred. No. 2.7e+07;  
 Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 7 ATAGACTTCTC 17  
 |||||  
 Db 19 ATATTCTTCTC 9

## RESULT 37

AZ875430  
 LOCUS 19 bp DNA linear GSS 21-FEB-2001  
 DEFINITION 2M0189K09R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0189K09 R, genomic survey sequence.

ACCESSION AZ875430  
 VERSION AZ875430.1 GI:13085433  
 KEYWORDS GSS.  
 SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 19)

## REFERENCE

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.  
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 JOURNAL Unpublished (2000)  
 COMMENT Contact: Robert B. Weiss

```

University of Utah Genome Center
University of Utah
Em .308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0189 row: K column: 09
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1..19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0189K09"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGCLM library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

FEATURES
source
Query Match 39.0%; Score 7.8; DB 8; Length 19;
Best Local Similarity 81.8%; Pred. No. 2.7e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 10 GACTTCTCAGA 20.
|||||
Db 2 GACTTGTCTGA 12

RESULT 38
AJ595189/c
LOCUS 19 bp DNA linear GSS 15-JAN-2004
DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone
412H07, genomic survey sequence.
ACCESSION AJ595189
VERSION AJ595189.1 GI:37944813
KEYWORDS GSS; left border; T-DNA flanking sequence.
SOURCE Arabidopsis thaliana (thale cress)
ORGANISM Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsids.
1
REFERENCE
AUTHORS Brunaud,V., Balzerque,S., Dubreucq,B., Aubourg,S., Samson,F.,
Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
Lepiniec,L., Caboche,M. and Lecharny,A.
T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)
22363535
MEDLINE
PUBMED 12446565
REFERENCE
AUTHORS Balzerque,S.
Direct Submission
Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE
PCR was performed on DNA from transformants of Arabidopsis thaliana
plants from INRA (Versailles). The DNA fragment(s) resulting from
the PCR were directly sequenced from the left or the right border
to determine the genomic sequence flanking the insertion. T-DNA
derived sequences were removed. Information to order the
graphical display of the insertion site are available at
http://dbgap.versailles.inra.fr/publiclines/. This sequence has
been generated in the framework of the French plant genomics
program 'Genoplante' (http://www.genoplante.com and
http://genoplante-info.infobiogen.fr).
Location/Qualifiers
1..19
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/cultivar="Wassiliewskaja"
/db_xref="taxon:3702"
/clone="412H07"
/clone_lib="Arabidopsis thaliana T-DNA insertion lines"
misc_feature 1..19
/notes="T-DNA flanking sequence
left border"
ORIGIN
Query Match 39.0%; Score 7.8; DB 9; Length 19;
Best Local Similarity 81.8%; Pred. No. 2.7e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ACCGATAGAC 12
|||||
Db 13 ACCATATAGAC 3

RESULT 39
AJ599121
LOCUS 19 bp DNA linear GSS 15-JAN-2004
DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone
481A05, genomic survey sequence.
ACCESSION AJ599121
VERSION AJ599121.1 GI:37948749
KEYWORDS GSS; left border; T-DNA flanking sequence.
SOURCE Arabidopsis thaliana (thale cress)
ORGANISM Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsids.
1
REFERENCE
AUTHORS Brunaud,V., Balzerque,S., Dubreucq,B., Aubourg,S., Samson,F.,
Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
Lepiniec,L., Caboche,M. and Lecharny,A.
T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)
22363535
MEDLINE
PUBMED 12446565
REFERENCE
AUTHORS Balzerque,S.
Direct Submission
Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE
PCR was performed on DNA from transformants of Arabidopsis thaliana
plants from INRA (Versailles). The DNA fragment(s) resulting from
the PCR were directly sequenced from the left or the right border
to determine the genomic sequence flanking the insertion. T-DNA
derived sequences were removed. Information to order the
graphical display of the insertion site are available at

```

<http://dbgap.versailles.inra.fr/publiclines/>. This sequence has been generated in the framework of the French plant genomics program 'genoplante' (<http://www.genoplante.com> and <http://genoplante-info.infobiogen.fr>).

Search completed: August 12, 2005, 12:11:45  
Job time : 1785 secs

## FEATURES

source

Location/Qualifiers

1..19  
/organism="Arabidopsis thaliana"  
/mol\_type="genomic DNA"  
/cultivar="Wassiljewskija"  
/db\_xref="taxon:3702"  
/clone="481A05"  
/clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
misc\_feature 1..19  
/note="T-DNA flanking sequence  
left border"

## ORIGIN

Query Match 39.0%; Score 7.8; DB 9; Length 19;  
Best Local Similarity 81.8%; Pred. No. 2.7e+07;  
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 CCGCATAGACT 13

Db 4 CAGCATATACT 14

## RESULT 40

CL683526

LOCUS

DEFINITION

CL683526 19 bp DNA linear GSS 09-JUL-2004  
PRI0137a\_F08\_2 - PRI0137a\_BR (19) Mixed stage fosmid library of P.  
pacificus var. California Pristionchus pacificus genomic, genomic  
survey sequence.

ACCESSION

CL683526

VERSION

GSS.

KEYWORDS

SOURCE

ORGANISM

Pristionchus pacificus  
Pristionchus pacificus  
Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;  
Neodiplogasteridae; Pristionchus.

REFERENCE

AUTHORS

TITLE

Srinivasan, J., Otto, G.W., Kahlow, U., Geisler, R. and Sommer, R.J.  
AppADB: an AcedB database for the nematode satellite organism  
Pristionchus pacificus

JOURNAL

COMMENT

Nucleic Acids Res. 32 (1), D421-D422 (2004)  
Contact: Sommer RJ  
Evolutionary Biology  
Max-Planck-Institute for Developmental Biology  
Spemannstr. 37-39, Tuebingen D-72076, Germany  
Tel: 00497071601371  
Fax: 00497071601498  
Email: ralf.sommer@tuebingen.mpg.de  
This library was generated at Caltech, Pasadena, USA and end  
sequenced at Vancouver, Canada.  
Seq primer: T7  
Class: fosmid ends.

## FEATURES

source

Location/Qualifiers

1..19  
/organism="Pristionchus pacificus"  
/mol\_type="genomic DNA"  
/strain="California"  
/db\_xref="taxon:54126"  
/clone\_lib="Mixed stage fosmid library of P. pacificus  
var. California"  
/note="Vector: pEpifos-5 Fosmid vector"

## ORIGIN

Query Match 39.0%; Score 7.8; DB 9; Length 19;  
Best Local Similarity 81.8%; Pred. No. 2.7e+07;  
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACCCATAGA 11

Db 7 GTCCTCATAGA 17

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